

### Introduction

Labome provides detailed information about commercial and non-commercial products used in biochemical research and establishes an intuitive system through which the user can compare similar products from different suppliers. Through partnerships with high-quality reagent suppliers, Labome offers more than 1.5 million reagent information guides and updates the guides frequently. In addition to reagent guides, Labome analyses reagent usage in the biomedical literature and maintains bibliographies organized by gene, species, and reagent type (antibodies, recombinant proteins, ELISA, siRNA, cDNA clones, biochemicals, and others). To further facilitate users' research, Labome also shares the latest biochemical methods and materials and summarizes common methods and protocols for users.

## Labome homepage layout

The screenshot shows the Labome homepage with several key sections highlighted by red boxes and annotated with arrows and text:

- Search Bar:** Located at the top, with the text "ExactAntigen.com is now Labome.com" and "Enter a gene or product name" pointing to it.
- Product Directory:** A large section on the left containing lists of products such as "Primary Antibodies", "Proteins and Peptides", and "cDNA clones". An arrow points to it with the text "Browse products by category".
- New Materials and Methods:** A section on the right containing articles like "Sorting out DNA's Interstrand Orientation" and "Diagnose Viral and Bacterial Infections". An arrow points to it with the text "New experimental materials and methods".
- Reagent and Instrument Review:** A section on the right containing articles like "hemagglutinin tag antibody" and "phosphotyrosine antibody". An arrow points to it with the text "Reagent/Instrument Review".
- Your Feedback:** A section on the left containing a form for "Questions, comments, and suggestions" and a "post" button. An arrow points to it with the text "Ask a representative question".
- Methods and Protocols:** A section on the right containing articles like "Cell Biology/immunology" and "stem cell culture". An arrow points to it with the text "Detailed methods and protocols".
- Laboratory Services:** A section at the bottom left containing services like "antibody production" and "cell line authentication". An arrow points to it with the text "Lab services".
- Contribute/Career:** A section at the bottom middle containing contact information and social media links (rss, facebook, twitter, email).
- Mission:** A section at the bottom right containing information about "Organize Laboratory Materials and Methods Gift".

At the bottom of the page, there is a footer with links: "about | how to find an antibody | privacy | disclaimer".

Product search: take p53 as an example

Step 1: Enter a gene name like this:

**Labome**  
The world of laboratories

ExactAntigen.com is now Labome.com

Enter a gene or product name

Search antibodies, siRNA/shRNA, ELISA, cDNA clones, proteins/peptides, microRNA, and biochemicals

**Product Directory**  
Browse genes through pathway, gene family, disease, cell type, tissue, enzyme, species

- Primary Antibodies
  - p53, CD133, AKT, CD4, EGFR, caspase 3, ER
- Proteins and Peptides
  - VEGF, HER2, TNF alpha, osteopontin, insulin
- ELISA and Assay Kits
  - IL6, MCP1, IL8, IL10, APP, VCAM-1, IL4
- cDNA clones
  - vimentin, survivin, SOX1, Oct4, CDK11B
- siRNA, shRNA, and microRNA
  - SLC35F4, SCOC, Act1, SIRT1, MT1M, Bcl-2
- Biochemicals, Activators and Inhibitors
  - Akt inhibitor, COX-1 inhibitor, cathepsin L inhibitor

**New Materials and Methods**

- Sorting out DNA's Interstrand Orientation
- Diagnose Viral and Bacterial Infections
- Low Salt Nucleic Acid Sequence Detection
- Binding Kinetics at Ultralow Concentrations
- Identification of Hepatitis C Virus Genotype 1

**Reagent and Instrument Review**

- hemagglutinin tag antibody
- phosphotyrosine antibody
- myc antibody
- beta1 integrin antibody
- p53 antibody

**Methods and Protocols**

- Cell Biology/Immunology
  - stem cell culture
- Molecular Biology
  - FAR-CLIP
- Proteomics/Protein Biochemistry
  - microRNA

**Your Feedback**  
Questions, comments, and suggestions.

email address (optional):

**Lab services**

- Biology
  - antibody production, cell line authentication
- Chemistry
  - acrylation, chiral synthesis, medicinal chemistry
- Preclinical Testing/Clinical Diagnostics
  - animal, Chlamydia trachomatis, papillomavirus
- Physics
  - mass spectrometry, saliva testing

**Contribute Career**  
Labome welcomes your input/interest. Contact us if you would like to contribute protocols or write for us.

**Connect**

- rss
- facebook
- twitter
- email

**Mission**  
Organize Laboratory Materials and Methods  
Gift  
Labome selects one recipient for Science gift subscription every week.  
Enter the selection by inputting your email address for the ExactAlert service throughout our website.

about | how to find an antibody | privacy | disclaimer

**Step 2:** Click [search]. You will get a page like this:

The screenshot shows the Labome website interface. At the top, the Labome logo and tagline 'The world of laboratories' are displayed. A search bar with a 'search' button is on the right. Below the header, the breadcrumb 'home > p53 Gene Search Result' is shown. The main content area features a 'Product application review' section with a list of search results: 'p53 antibody review', 'p53 antibody', 'p53 siRNA', 'p53 cDNA', 'p53 protein', 'p53 chemical', 'p53 ELISA', and 'p53 other'. A red box highlights the 'antibody review' and 'p53 antibody' results. A blue box highlights the 'antibody review' result. A black arrow points from the 'Product application review' text to the 'antibody review' result. Below the search results, a 'synonym' list is provided, including 'tumor protein p53', 'p53 phosphoprotein p53', 'p53 tumor suppressor', 'cellular tumor antigen p53', 'FLJ92943', 'LFS1', 'TRP53', 'OTTHUMP00000221333', 'OTTHUMP00000221334', 'OTTHUMP00000221336', 'OTTHUMP00000221337', 'OTTHUMP00000221340', 'antigen NY-CO-13', and 'transformation-related protein 53'. A black arrow points from the 'Products related to p53' text to the 'synonym' list. On the right side, a 'species' dropdown menu is open, showing options: 'human', 'rat', 'zebrafish', and 'other species'. A red box highlights the 'species' dropdown menu. A black arrow points from the 'Choose your research species' text to the 'species' dropdown menu. At the bottom, the copyright notice 'Labome.com © 2011 All Rights Reserved' and the date 'last updated: 2011-07-13' are displayed.

Labome  
The world of laboratories

home > p53 Gene Search Result

Product application review

Search p53 as a species name  
Not the correct genes, use advanced search

p53 antibody review p53 antibody p53 siRNA p53 cDNA p53 protein p53 chemical p53 ELISA p53 other

synonym: tumor protein p53; p53 phosphoprotein p53; p53 tumor suppressor; cellular tumor antigen p53; FLJ92943; LFS1; TRP53; OTTHUMP00000221333; OTTHUMP00000221334; OTTHUMP00000221336; OTTHUMP00000221337; OTTHUMP00000221340; antigen NY-CO-13; transformation-related protein 53

Products related to p53

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species  
human  
rat  
zebrafish  
other species

Choose your research species

**Step 3a-1:** click [*antibody review*]. You will see products from various companies and their usage and method in specific papers:

The screenshot shows the Labome website interface for a search on 'p53 antibody'. The page includes a search bar, navigation links, and a list of search results. Annotations with arrows highlight key features:

- Method review:** A sidebar on the right lists various methods such as 'all methods', 'CHIP assay', 'ELISA', 'EMSA', 'flow cytometry', 'immunocytochemistry', 'immunohistochemistry', and 'immunoprecipitation'. An arrow points to this list with the text: "Choose a specific method used in papers with various antibodies".
- Product review:** A sidebar on the right lists products like 'antibody', 'siRNA', and 'protein'. An arrow points to this list with the text: "Choose a product to see their usage in specific papers".
- Related gene review:** A sidebar on the right lists genes including 'MDM2', 'p21', 'p16', 'Bcl 2', 'p73', 'Ras', 'BAX', 'BRCA1', 'HER2', and 'ATM'. An arrow points to this list with the text: "Genes related to p53. Click to see products".
- Questions and comments:** A sidebar on the right contains a 'comment' box. An arrow points to it with the text: "Comment on associated products".
- Companies providing p53 antibodies:** On the left, arrows point to search results from 'Cell Signaling Technology', 'Dako', and 'BD Biosciences'.
- Method and related paper:** In the center, arrows point to the 'western blot' and 'immunohistochemistry' methods listed for various products.
- Browse products of a specific company:** An arrow points to the 'Cell Signaling Technology p53 product' link.

**Step3a-2:** click [*Cell Signaling Technology p53 product*]. You will see detailed information of all Cell Signaling p53 antibodies:

Detailed information on all Cell Signaling p53 antibodies

[home](#) > [Cell Signaling Technology](#) > Cell Signaling Technology p53 antibody

<a href="#">p53 (1C12) Mouse mAb (Alexa Fluor(R) 647 Conjugate)</a> Cell Signaling Technology	reactivity: human, rat, mouse clonality: monoclonal host: mouse conjugate: AF647 application: immunocytochemistry, flow cytometry	quantity: 100 ul price: \$285 <a href="#">to the supplier</a>
<a href="#">Phospho-p53 (Ser15) (16G8) Mouse mAb (Alexa Fluor(R) 488 Conjugate)</a> Cell Signaling Technology	reactivity: human clonality: monoclonal host: mouse conjugate: AF488 modification: phosphorylated application: immunocytochemistry, flow cytometry	quantity: 100 ul price: \$285 <a href="#">to the supplier</a>
<a href="#">p53 (1C12) Mouse mAb (Alexa Fluor(R) 488 Conjugate)</a> Cell Signaling Technology	reactivity: human, rat, mouse clonality: monoclonal host: mouse conjugate: AF488 application: immunocytochemistry, flow cytometry	quantity: 100 ul price: \$285 <a href="#">to the supplier</a>
<a href="#">Phospho-p53 (Ser15) (16G8) Mouse mAb (Biotinylated)</a> Cell Signaling Technology	reactivity: human clonality: monoclonal host: mouse modification: phosphorylated application: western blot, flow cytometry	quantity: 100 ul price: 285 <a href="#">to the supplier</a>
<a href="#">p53 (7F5) Rabbit mAb (Biotinylated)</a> Cell Signaling Technology	reactivity: human clonality: monoclonal host: rabbit application: western blot, flow cytometry	quantity: 100 ul price: 285 <a href="#">to the supplier</a>

**Step 3b-1:** click [*p53 antibody*] from Step 2. You get a page like the image below. Filter similar products from different suppliers through different criteria.

The screenshot shows the Labome website interface for a product page. At the top, the Labome logo and tagline 'The world of laboratories' are visible, along with a search bar. The breadcrumb trail reads 'home > human > p53 antibody | antibody product information from all suppliers'. The main content area is titled 'gene information - human p53' and includes synonyms and a description. Below this is a large 'product' section containing a grid of supplier checkboxes (e.g., Abbiotec, Abcam, Abgent, etc.), a list of reactive species (with 'human' checked), and various other filters like clonality, host species, conjugation, antigen modification, and application. A red box highlights the 'apply filters' button in the top right of the product section. On the right side of the page, there are sections for 'product type', 'species', 'related gene', and 'linkout'. An arrow from the text 'Filter by specific criteria' points to the 'suppliers' list and the 'reactive species' filter. Another arrow points from the same text to the 'clonality' filter.

**Step 3b-2:** After filtering, you can choose different products for comparison.

Choose different products for comparison → select up to five products for comparison  
compare

<input type="checkbox"/>	Rabbit monoclonal antibody against p53 Acetyl (K305)(clone EPR354(3)) <b>Origene</b> <a href="#">more products</a>	reactivity: human clonality: monoclonal host: rabbit application: western blot	quantity: 100 ul price: 325 USD <a href="#">to the supplier</a>
<input type="checkbox"/>	Rabbit monoclonal antibody against p53 (C-Term)(E47) <b>Origene</b> <a href="#">more products</a>	reactivity: human clonality: monoclonal host: rabbit application: western blot, immunocytochemistry, immunoprecipitation, flow cytometry	quantity: 100 ul price: 325 USD <a href="#">to the supplier</a>
<input type="checkbox"/>	Purified Rabbit Polyclonal Antibody against TP53 (S46) <b>Origene</b> <a href="#">more products</a>	reactivity: human clonality: polyclonal host: rabbit application: western blot, ELISA, immunohistochemistry	quantity: 100 ug price: 325 USD <a href="#">to the supplier</a>
<input type="checkbox"/>	Anti-p53 <b>MyBioSource</b> <a href="#">more products</a>	reactivity: human clonality: monoclonal host: rabbit application: immunohistochemistry	quantity: 0.5 ml price: 370 USD <a href="#">to the supplier</a>
<input type="checkbox"/>	Anti-p53 clone I <b>MyBioSource</b> <a href="#">more products</a>	reactivity: human, mouse clonality: monoclonal host: rabbit application: western blot, ELISA, immunohistochemistry, immunoprecipitation	quantity: 0.1 ml price: 375 USD <a href="#">to the supplier</a>
<input type="checkbox"/>	Anti-p53 clone II <b>MyBioSource</b> <a href="#">more products</a>	reactivity: human, mouse clonality: monoclonal host: rabbit application: western blot, ELISA, immunoprecipitation	quantity: 0.1 ml price: 365 USD <a href="#">to the supplier</a>
<input type="checkbox"/>	TP53 Antibody (monoclonal) (M01) <b>Abgent</b> <a href="#">more products</a>	reactivity: human clonality: monoclonal host: mouse application: ELISA, immunohistochemistry, immunocytochemistry	quantity: 0.1 mg price: 290.00 <a href="#">to the supplier</a>
<input type="checkbox"/>	p53 Antibody (S315) <b>Abgent</b> <a href="#">more products</a>	reactivity: human clonality: polyclonal host: rabbit modification: phosphorylated application: western blot, ELISA, immunohistochemistry	quantity: 0.1 mg price: \$235.00 <a href="#">to the supplier</a>
<input type="checkbox"/>	p53 Antibody (S46) <b>Abgent</b> <a href="#">more products</a>	reactivity: human clonality: polyclonal host: rabbit modification: phosphorylated application: western blot, ELISA, immunohistochemistry	quantity: 0.1 mg price: \$235.00 <a href="#">to the supplier</a>

**Step 3b-3:** Click [*compare*]. You will see this page:

home > Product Comparison

	OriGene	MyBioSource	Abgent	Abgent	Biorbyte
supplier					
product name	Rabbit monoclonal antibody against p53 Acetyl (K305)(clone EPR354(3))	Anti-p53	TP53 Antibody (monoclonal) (M01)	p53 Antibody (S46)	Rabbit polyclonal to p53
quantity	100 ul	0.5 ml	0.1 mg	0.1 mg	100 ug
price	325 USD	370 USD	290.00	\$235.00	255 USD
reactivity	human	human	human	human	human mouse
clonality	monoclonal	monoclonal	monoclonal	polyclonal	polyclonal
modification				phosphorylated	
application	western blot	immunohistochemistry	ELISA immunohistochemistry immunocytochemistry	western blot ELISA immunohistochemistry	western blot ELISA
host	rabbit	rabbit	mouse	rabbit	rabbit

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Then, you can choose the product most suitable for your research.