

## Rabbit SELENBP1 Polyclonal Antibody | anti-SELENBP1 antibody

SELENBP1 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA326130 | Rabbit | Human, Mouse, Rat | ELISA, Immunohistochemistry, Western Blot |

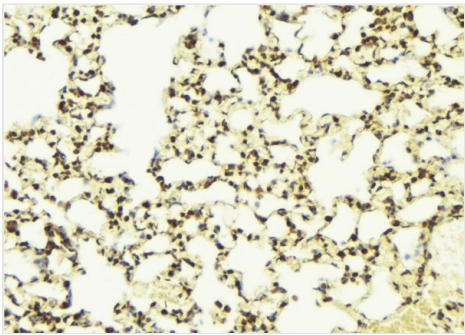
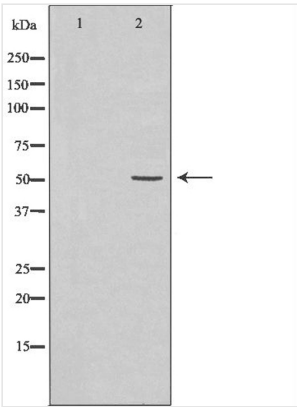
### PRODUCT SYNONYMS

SELENBP1; Polyclonal Antibody; SELENBP1 Antibody; 56 kDa selenium binding protein; 56 kDa selenium-binding protein; hSBP; LPSB; SBP; SBP1; SBP1\_HUMAN; SBP56; Selenbp1; Selenbp2; Selenium binding protein 2; Selenium binding protein1; Selenium-binding protein 1; SELNBP1; SP56; anti-SELENBP1 antibody

### PRODUCT SPECIFICATIONS

|                                                    |                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Rabbit                                                                                                                                                                                                                                                                                                        |
| Reactivity                                         | Human, Mouse, Rat                                                                                                                                                                                                                                                                                             |
| Clonality                                          | Polyclonal                                                                                                                                                                                                                                                                                                    |
| Isotype                                            | IgG                                                                                                                                                                                                                                                                                                           |
| Specificity                                        | SELENBP1 antibody detects endogenous levels of total SELENBP1                                                                                                                                                                                                                                                 |
| Purity/Purification                                | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                                                                                                 |
| Form/Format                                        | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                 |
| Concentration                                      | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                        |
| Sequence Length                                    | 410                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-SELENBP1 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                                          |
| Immunogen                                          | A synthesized peptide derived from human SELENBP1                                                                                                                                                                                                                                                             |
| Subcellular Location                               | Nucleus. Cytoplasm > Cytosol. Membrane. May associate with golgi membrane. May associate with the membrane of autophagosomes.                                                                                                                                                                                 |
| Tissue Specificity                                 | Widely expressed. Highly expressed in liver, lung, colon, prostate, kidney and pancreas. In brain, present both in neurons and glia (at protein level). Down-regulated in lung adenocarcinoma, colorectal carcinoma and ovarian cancer. Two-fold up-regulated in brain and blood from schizophrenia patients. |
| Predicted Cross Reactivity                         | <b>Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus</b>                                                                                                                                                                                                                                    |
| Similarity                                         | Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)                                                                                                                                                                            |
| Conjugation                                        | Unconjugated                                                                                                                                                                                                                                                                                                  |
| Preparation and Storage                            | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                                                                             |

IMAGES



**IHC (Immunohistochemistry)**  
AAA326130 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

**WB (Western Blot)**  
Western blot analysis of 721\_B lysate using SELENBP1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SELENBP1 antibody

Description: This gene encodes a member of the selenium-binding protein family. Selenium is an essential nutrient that exhibits potent anticarcinogenic properties, and deficiency of selenium may cause certain neurologic diseases. The effects of selenium in preventing cancer and neurologic diseases may be mediated by selenium-binding proteins, and decreased expression of this gene may be associated with several types of cancer. The encoded protein may play a selenium-dependent role in ubiquitination/deubiquitination-mediated protein degradation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Apr 2012]

Function: Catalyzes the oxidation of methanethiol, an organosulfur compound known to be produced in substantial amounts by gut bacteria (PubMed:29255262). Selenium-binding protein which may be involved in the sensing of reactive xenobiotics in the cytoplasm. May be involved in intra-Golgi protein transport (By similarity).

Subunit Structure: Interacts with USP33.

Post-translational Modifications: Phosphorylated. The N-terminus is blocked.

Similarity: Belongs to the selenium-binding protein family.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                               |
|----------------------------------|-------------------------------------------------------------------------------|
| NCBI GI #                        | 385137128                                                                     |
| NCBI GeneID                      | 8991                                                                          |
| NCBI Accession #                 | NP_001245217.1                                                                |
| NCBI GenBank Nucleotide #        | NM_001258288.1                                                                |
| UniProt Accession #              | Q13228; Q49AQ8; Q96GX7; A6NML9; A6PVW9; B2RDR3; B4DKP6; B4E1F3                |
| Molecular Weight                 | Observed: 52 kDa<br>Predicted: 53 kDa                                         |
| NCBI Official Full Name          | methanethiol oxidase isoform 2                                                |
| NCBI Official Synonym Full Names | selenium binding protein 1                                                    |
| NCBI Official Symbol             | SELENBP1                                                                      |
| NCBI Official Synonym Symbols    | MTO; LPSB; SP56; hSBP; EHMT0; SBP56; HEL-S-134P                               |
| NCBI Protein Information         | methanethiol oxidase; selenium-binding protein 1                              |
| UniProt Protein Name             | Methanethiol oxidase                                                          |
| UniProt Gene Name                | SELENBP1                                                                      |
| UniProt Synonym Gene Names       | SBP; MTO1 PublicationManual assertion based on opinion iniRef.17; SBP56; SP56 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/selenbp1-antibody-immunohistochemistry-western-blot-elisa/326130>