

# SRPX1 Antibody

Catalog # ASC11011

## Product Information

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| <b>Application</b>           | WB, IF, E, IHC-P                                                                                                                                                                                                  |
| <b>Primary Accession</b>     | <a href="#">P78539</a>                                                                                                                                                                                            |
| <b>Other Accession</b>       | <a href="#">NP_006298</a> , <a href="#">5454086</a>                                                                                                                                                               |
| <b>Reactivity</b>            | Human, Mouse, Rat                                                                                                                                                                                                 |
| <b>Host</b>                  | Rabbit                                                                                                                                                                                                            |
| <b>Clonality</b>             | Polyclonal                                                                                                                                                                                                        |
| <b>Isotype</b>               | IgG                                                                                                                                                                                                               |
| <b>Calculated MW</b>         | 51572                                                                                                                                                                                                             |
| <b>Concentration (mg/ml)</b> | 1 mg/mL                                                                                                                                                                                                           |
| <b>Conjugate</b>             | Unconjugated                                                                                                                                                                                                      |
| <b>Application Notes</b>     | SRPX1 antibody can be used for detection of SRPX1 by Western blot at 0.25 $\mu$ g/mL. Antibody can also be used for immunohistochemistry starting at 5 $\mu$ g/mL. For immunofluorescence start at 20 $\mu$ g/mL. |

## Additional Information

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| <b>Gene ID</b>                      | 8406                                                                                                                                                                                                                                          |
| <b>Other Names</b>                  | Sushi repeat-containing protein SRPX, SRPX, ETX1                                                                                                                                                                                              |
| <b>Target/Specificity</b>           | SRPX;                                                                                                                                                                                                                                         |
| <b>Reconstitution &amp; Storage</b> | SRPX1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |
| <b>Precautions</b>                  | SRPX1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.                                                                                                                                              |

## Protein Information

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| <b>Name</b>              | SRPX                                                                                                                                                       |
| <b>Synonyms</b>          | ETX1                                                                                                                                                       |
| <b>Function</b>          | May be involved in phagocytosis during disk shedding, cell adhesion to cells other than the pigment epithelium or signal transduction.                     |
| <b>Cellular Location</b> | Cell surface. Note=Possibly surface of photoreceptor cell                                                                                                  |
| <b>Tissue Location</b>   | Detected in fibroblasts (at protein level) (PubMed:36213313). Retina and heart; less in placenta, pancreas, lung, liver, skeletal muscle, kidney and brain |

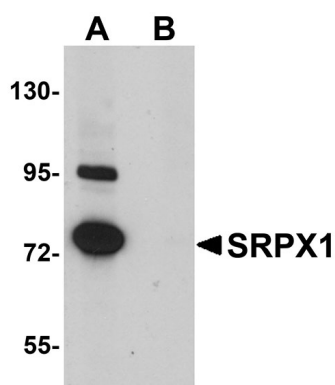
## Background

**SRPX1 Antibody:** SRPX1 was initially identified as a candidate gene for X-linked retinitis pigmentosa and is overexpressed in the trabecular network of the eye in glaucoma conditions. Its expression is significantly downregulated in a number cancer cell lines and malignant tumor tissues and its ectopic expression induces apoptosis through the endoplasmic reticulum and the activation of caspase-12, -9, and -3, indicating that it can function as a tumor suppressor. SRPX1 is also involved with the regulation of autophagy under low serum conditions and can associate with Rab24, a member of the Rab GTPase protein family that is involved in autophagy. This association of SRPX1 with Rab24 is enhanced during autophagy.

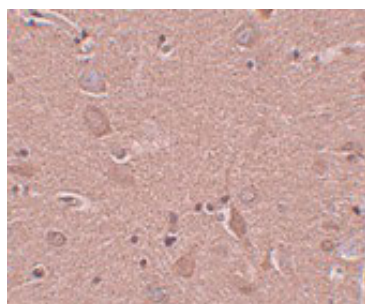
## References

Dry KL, Aldred MA, Edgar AJ, et al. Identification of a novel gene, ETX1 from Xp21.1, a candidate gene for X-linked retinitis pigmentosa (RP3). *Hum. Mol. Genet.*1995; 4:2347-53.  
Iragavarapu S, Algeciras ME, Lee RK, et al. ETX1 is over-expressed in the glaucomatous trabecular meshwork. *Mol. Vision*2009; 15:2061-7.  
Shimakage M, Kawahara K, Kikkawa N, et al. Downregulation of drs mRNA in human colon adenocarcinomas. *Int. J. Cancer*2000; 87:5-11.  
Tambe Y, Isono T, Haraguchi S, et al. A novel apoptotic pathway induced by the drs tumor suppressor gene. *Oncogene*2004; 23:2977-87.

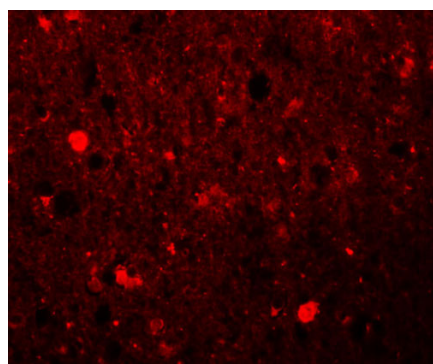
## Images



Western blot analysis of SRPX1 in SK-N-SH cell lysate with SRPX1 antibody at 0.25  $\mu\text{g/mL}$  in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of SRPX1 in human brain tissue with SRPX1 antibody at 5  $\mu\text{g/mL}$ .



Immunofluorescence of SRPX1 in human brain tissue with SRPX1 antibody at 20  $\mu\text{g/mL}$ .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.