



Rabbit Anti-SRPX2 antibody

SL11967R

Product Name:	SRPX2
Chinese Name:	SRPX2蛋白抗体
Alias:	SRPX2 is a 465 amino acid secreted protein expressed in neurons of the brain, including the rolandic area. It has been suggested that SRPX2 enhances cell motility, migration and adhesion through FAK signaling in gastric and other cancer cells. Localized to the cytoplasm, SRPX2 is a ligand for uPAR (urokinase plasminogen activator), a receptor that is a crucial component of the extracellular plasminogen proteolysis system. SRPX2 may be responsible for rolandic seizures (RSs) associated with oral and speech dyspraxia and mental retardation (MR). The involvement of SRPX2 in these disorders suggests an important role for SRPX2 in the perisylvian region critical for language and cognitive development; SRPX2 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	cytoplasmicSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SRPX2:121-220/465
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed:[PubMed](#)

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Function:

Acts as a ligand for the urokinase plasminogen activator surface receptor. Plays a role in angiogenesis by inducing endothelial cell migration and the formation of vascular network (cords). Involved in cellular migration and adhesion in cancer cells. Increases the phosphorylation levels of FAK. May have a role in the perisylvian region, critical for language and cognitive development.

Subunit:

Interacts with ADAMTS4, CTSB and PLAUR. Interacts with PLAUR (via the UPAR/Ly6 domains).

Subcellular Location:

Cytoplasm. Secreted.

Tissue Specificity:

Expressed in neurons of the rolandic area of the brain (at protein level). Highly expressed in the brain, placenta, lung, trachea, uterus and adrenal gland. Weakly expressed in the peripheral blood, brain and bone marrow. Expressed in numerous cancer cell lines.

DISEASE:

Defects in SRPX2 are a cause of bilateral perisylvian polymicrogyria (BPP) [MIM:300388]. BPP is the most common form of polymicrogyria, a malformation of the cortex, in which the brain surface is irregular and the normal gyral pattern replaced by multiple small, partly fused, gyri separated by shallow sulci. BPP results in mild mental retardation, epilepsy and pseudobulbar palsy, causing difficulties with expressive speech and feeding.

Defects in SRPX2 are a cause of rolandic epilepsy with speech dyspraxia and mental retardation X-linked (RESDX) [MIM:300643]. A condition characterized by the association of rolandic seizures with oral and speech dyspraxia, and mental retardation. Rolandic occur during a period of significant brain maturation. During this time, dysfunction of neural network activities such as focal discharges may be associated with specific developmental disabilities resulting in specific cognitive impairments of language, visuo-spatial abilities or attention.

Product Detail:

Similarity:

Contains 1 HYR domain.
Contains 3 Sushi (CCP/SCR) domains.

SWISS:

O60687

Gene ID:

27286

Database links:

[Entrez Gene: 27286](#)Human

[Entrez Gene: 68792](#)Mouse

[Entrez Gene: 317181](#)Rat

[Omim: 300642](#)Human

[SwissProt: O60687](#)Human

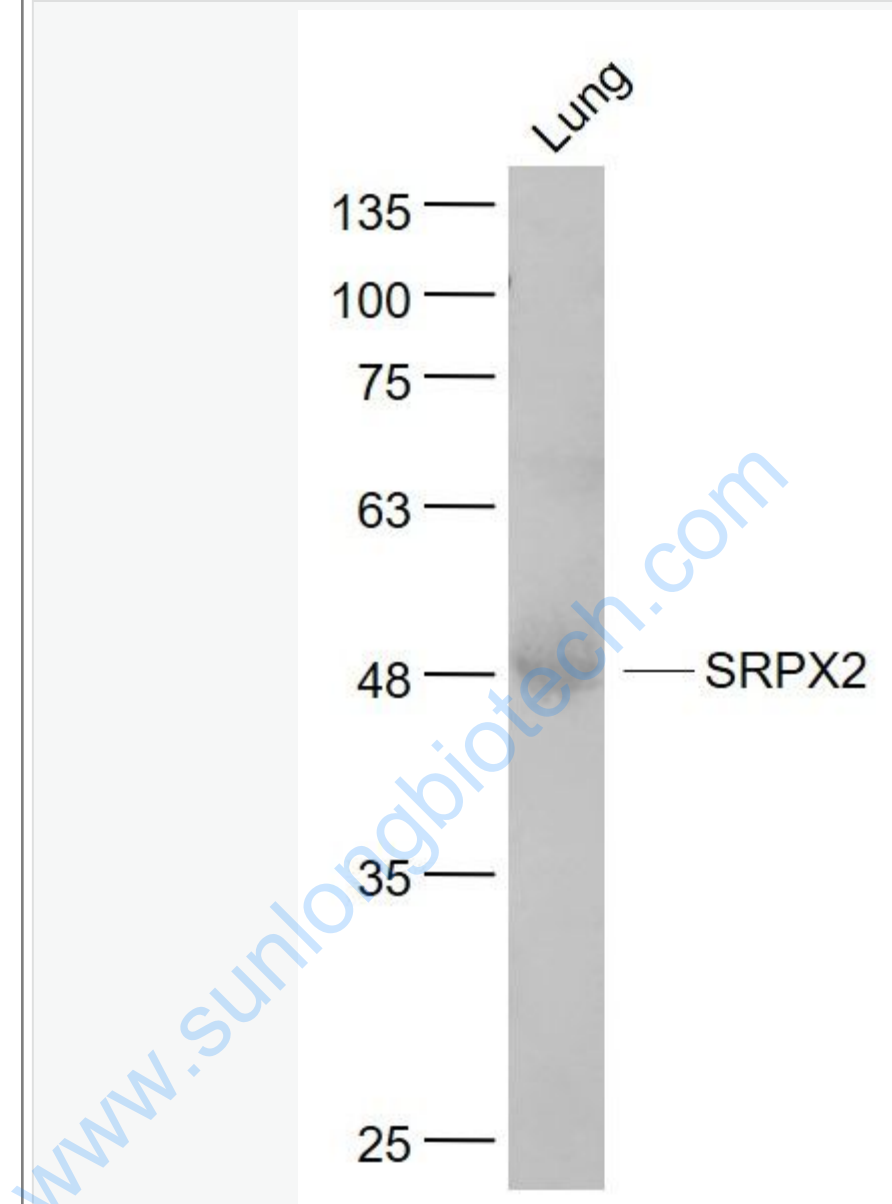
[SwissProt: Q8R054](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Picture:



Sample:

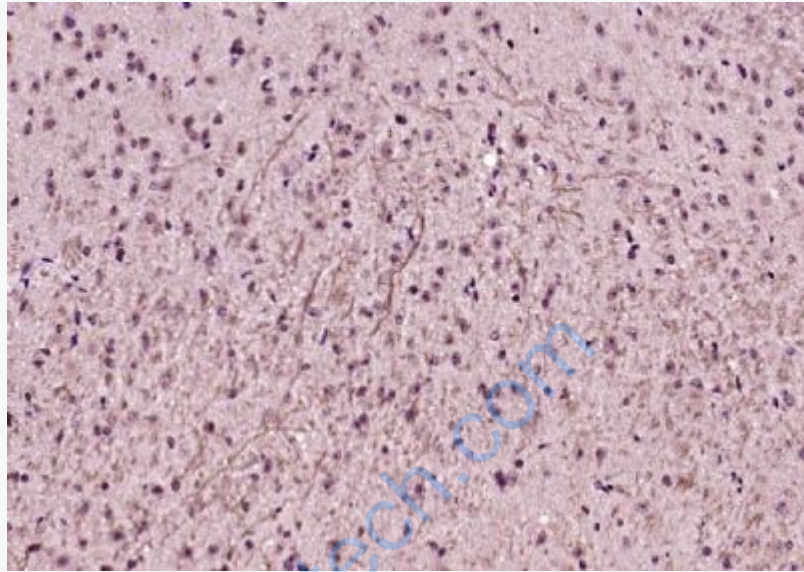
Lung (Mouse) Lysate at 40 ug

Primary: Anti- SRPX2 (SL11967R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD

Observed band size: 48 kD



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SRPX2) Polyclonal Antibody, Unconjugated (SL11967R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.