



Rabbit Anti-Plexin A2 antibody

SL3638R

Product Name:	Plexin A2
Chinese Name:	神经丛蛋白A2抗体
Alias:	PlexinA2; PLXA2; PLXNA2; Semaphorin receptor OCT.
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:	205kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Plexin A2:1251-1400/1894<Extracellular>
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
Product Detail:	Plexin A2 is a coreceptor for SEMA3A and is necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. This coreceptor plays a role in axon guidance, invasive growth and cell migration. Class 3 semaphorins bind to a complex composed of a neuropilin and a plexin in which the plexin modulates the affinity of the complex for specific semaphorins, and its cytoplasmic domain is required for the activation of down-stream signaling events in the cytoplasm.

Function:

Coreceptor for SEMA3A and SEMA6A. Necessary for signaling by SEMA6A and class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration. Class 3 semaphorins bind to a complex composed of a neuropilin and a plexin. The plexin modulates the affinity of the complex for specific semaphorins, and its cytoplasmic domain is required for the activation of down-stream signaling events in the cytoplasm (By similarity).

Subunit:

Homodimer. The PLXNA2 homodimer interacts with a SEMA6A homodimer, giving rise to a heterotetramer. Interacts directly with NRP1 and NRP2 (By similarity). Interacts with RND1.

Subcellular Location:

Cell membrane; Single-pass type I membrane protein (By similarity).

Tissue Specificity:

Detected in fetal brain.

Similarity:

Belongs to the plexin family.
Contains 4 IPT/TIG domains.
Contains 1 Sema domain.

SWISS:

O75051

Gene ID:

5362

Database links:

[Entrez Gene: 5362](#)Human

[Entrez Gene: 18845](#)Mouse

[Entrez Gene: 289392](#)Rat

[Omin: 601054](#)Human

[SwissProt: O75051](#)Human

[SwissProt: P70207](#)Mouse

[Unigene: 497626](#)Human

[Unigene: 2251](#)Mouse

Important Note:

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

Plexin A2蛋白是SEMA3A的辅助受体, Plexin A2蛋白在神经细胞轴突导向, 生长和细胞迁移中发挥作用。

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