

Rabbit Plexin A1 (Sema Domain) Polyclonal Antibody | anti-PLXNA1 antibody

Plexin A1 (Sema Domain)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71529	Rabbit	Human, Rat, Mouse	Immunocytochemistry, Western Blot, ELISA

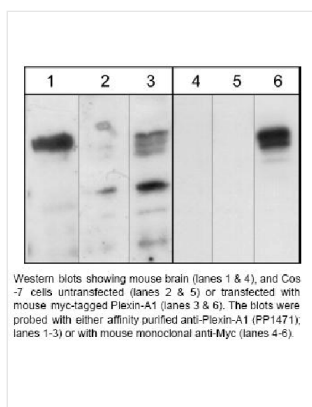
PRODUCT SYNONYMS

Plexin A1 (Sema Domain); Polyclonal Antibody; PLXN1; NOV; anti-PLXNA1 antibody

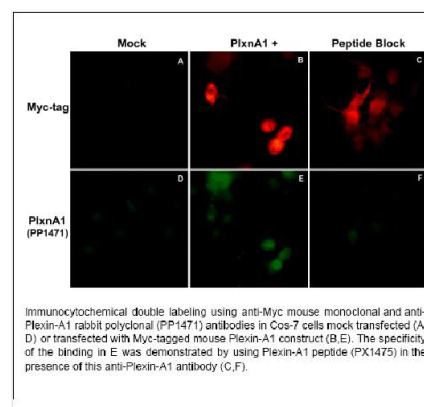
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Specificity	The antibody detects a 220 kDa* protein corresponding to the apparent molecular mass of Plexin-A1 on SDS-PAGE immunoblots of adult mouse brain and Cos-7 cells transfected with mouse Plexin-A1. In immunocytochemistry, this antibody co-localizes with anti-Myc in Cos-7 cells transfected with Myc-tagged mouse Plexin-A1.
Purity/Purification	Affinity Purified
Form/Format	Rabbit polyclonal, affinity-purified antibody is supplied in 100 ml phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide.
Sequence Length	1873
Applicable Applications for anti-PLXNA1 antibody	ICC (Immunocytochemistry), WB (Western Blot), ELISA
Immunogen	Plexin-A1 synthetic peptide (coupled to carrier protein) corresponding to a region within the semaphorin domain in human Plexin-A1. This sequence is highly conserved in rat and mouse Plexin-A1, and has low homology to other Plexin family members.
Preparation and Storage	Store at -20 degree C. Do not aliquot. Stable for 1 year.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-PLXNA1 antibody	Plexins are a family of large integral membrane proteins that complex with neuropilins to form semaphorin co-receptors. The extracellular region of plexins contains a semaphorin domain, multiple glycine-rich motifs, and MET-related sequences. The cytoplasmic region contains a Sex/Plexin domain and putative tyrosine phosphorylation sites that mediate signal transduction after activation. This region in Plexin-A1 binds the RhoGTPases, Rnd1 and RhoD. Recruitment of Rnd1 has been implicated in the cytoskeletal collapse that occurs after semaphorin-mediated activation of Plexin-A1, while RhoD may block this collapsing activity through interaction with the cytoplasmic region of Plexin-A1. The expression of Plexin-A1, along with the co-receptor Neuropilin-1, is upregulated in neurons after central nervous system injury. The axons from these neurons cannot cross semaphorin 3Acontaining regions at the site of injury. Thus, semaphorin 3A and its co-receptors, Plexin-A1 and Neuropilin-1, may have significant roles in axon regeneration after neuronal injury.
References	• Takahashi, T. & Strittmatter, S.M. (2001) Neuron 29:429 • Tamagnone, L. et al. (1999) Cell 99:71.

NCBI AND UNIPROT INFORMATION

NCBI GI #	49355818
NCBI GeneID	5361
NCBI Accession #	NP_115618.2
NCBI GenBank Nucleotide #	NM_032242.2
UniProt Accession #	Q6ZTY7; Q9NSM6; Q9UIW2
Molecular Weight	208419 Da
NCBI Official Full Name	plexin A1
NCBI Official Synonym Full Names	plexin A1
NCBI Official Symbol	PLXNA1
NCBI Official Synonym Symbols	NOV; NOVP; PLXN1; PLEXIN-A1; DKFZp761P19121
NCBI Protein Information	plexin-A1; plexin 1; OTTHUMP00000215966; semaphorin receptor NOV
UniProt Protein Name	cDNA FLJ44113 fis, clone TEST14046487, highly similar to Mus musculus plexin A1 (Plxna1)
UniProt Entry Name	Q6ZTY7_HUMAN

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/plexin-a1-sema-domain-antibody-immunocytochemistry-western-blot-elisa/71529>