

Rabbit OLFM1 Polyclonal Antibody | anti-OLFM1 antibody

OLFM1 Antibody

CATALOG # AAA325864	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
-------------------------------	-----------------------	--	--

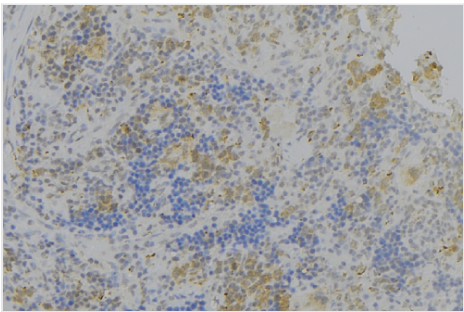
PRODUCT SYNONYMS

OLFM1; Polyclonal Antibody; OLFM1 Antibody; AMY; NEUROBLASTOMA PROTEIN; Neuronal olfactomedin-related ER localized protein; Noe1; NOE1_HUMAN; Noel; Noel1; Noelin; Noelin1; Olfa; Olfactomedin 1; Olfactomedin-1; Olfm1; Pancortin 1; Pancortin; anti-OLFM1 antibody

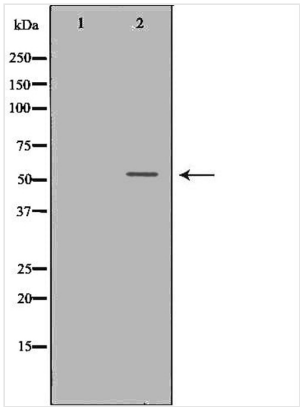
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	OLFM1 antibody detects endogenous levels of total OLFM1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	485
Applicable Applications for anti-OLFM1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human OLFM1
Subcellular Location	Endoplasmic Reticulum Lumen.
Predicted Cross Reactivity	Horse, Sheep, Dog, Chicken, Xenopus
Similarity	Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA325864 at 1/100 staining Human lymph node 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 Hela whole cell lysates, using OLFM1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-OLFM1 antibody

Description: The Olfactomedin family comprises a diverse group of secreted glycoproteins, which includes OLFM1 (Noelin-1), OLFM2 (Noelin-2), OLFM3 (Noelin-3), OLFM4 (Noelin-4), tiarin, pancortin, gliomedin and myocilin. These proteins are implicated in the development of the nervous system. Specifically, OLFM1 and OLFM2 expression is observed in the neural plate and neural crest, as well as in the cranial ganglia in mouse at E8-10, and later in brain tissue and in the zone of polarizing activity in the limb. Overexpression of OLFM1 causes an excess of neural crest emigrations and prolonged neural crest production. OLFM2 participates in the regulation of the development of the anterior nervous system. An Arg144Gln mutation in OLFM2 has been implicated as a possible cause for open-angle glaucoma (OAG).

Function: Contributes to the regulation of axonal growth in the embryonic and adult central nervous system by inhibiting interactions between RTN4R and LINGO1. Inhibits RTN4R-mediated axon growth cone collapse (By similarity). May play an important role in regulating the production of neural crest cells by the neural tube (By similarity). May be required for normal responses to olfactory stimuli (By similarity).

Subunit Structure: Homotetramer; disulfide-linked. Dimer of dimers, giving rise to a V-shaped homotetramer. Isoform 1 and isoform 3 interact with RTN4R. Identified in a complex with RTN4R and LINGO1. Peripherally associated with AMPAR complex. AMPAR complex consists of an inner core made of 4 pore-forming GluA/GRIA proteins (GRIA1, GRIA2, GRIA3 and GRIA4) and 4 major auxiliary subunits arranged in a twofold symmetry. One of the two pairs of distinct binding sites is occupied either by CNIH2, CNIH3 or CACNG2, CACNG3. The other harbors CACNG2, CACNG3, CACNG4, CACNG8 or GSG1L. This inner core of AMPAR complex is complemented by outer core constituents binding directly to the GluA/GRIA proteins at sites distinct from the interaction sites of the inner core constituents. Outer core constituents include at least PRRT1, PRRT2, CKAMP44/SHISA9, FRRS1L and NRN1. The proteins of the inner and outer core serve as a platform for other, more peripherally associated AMPAR constituents, including OLFM1. Alone or in combination, these auxiliary subunits control the gating and pharmacology of the AMPAR complex and profoundly impact their biogenesis and protein processing (By similarity). Interacts with OLFM2 (PubMed:21228389).

Similarity: The protein contains a globular N-terminal tetramerization domain, a long stalk formed by the coiled coil region and a C-terminal olfactomedin-like domain. Interactions between dimers are mediated by the coiled coil region. The dimers interact mostly via the N-terminal tetramerization domain, giving rise to a V-shaped overall architecture of the tetramer.

NCBI AND UNIPROT INFORMATION

NCBI GI #	543871463
NCBI GeneID	10439
NCBI Accession #	NP_001269540.1
NCBI GenBank Nucleotide #	NM_001282611.1
UniProt Accession #	Q99784; Q53XZ8; Q6IMJ4; Q6IMJ5; Q8N8R0; Q969S7; Q99452

Molecular Weight	Observed: 55 kDa Predicted: 56 kDa
NCBI Official Full Name	noelin isoform 4
NCBI Official Synonym Full Names	olfactomedin 1
NCBI Official Symbol	OLFM1
NCBI Official Synonym Symbols	AMY; NOE1; OlfA; NOELIN1
NCBI Protein Information	noelin
UniProt Protein Name	Noelin
UniProt Gene Name	OLFM1
UniProt Synonym Gene Names	NOE1; NOEL1

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/olfm1-antibody-immunohistochemistry-western-blot-elisa/325864>