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NOE2 Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP5713c

Specification

NOE2 Antibody (Center) Blocking peptide - Product Information

Primary Accession	O95897
Other Accession	NP_477512.1

NOE2 Antibody (Center) Blocking peptide - Additional Information

Gene ID 93145

Other Names
Noelin-2, Olfactomedin-2, OLFM2, NOE2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NOE2 Antibody (Center) Blocking peptide - Protein Information

Name OLFM2

Synonyms NOE2

Function
Involved in transforming growth factor beta (TGF-beta)- induced smooth muscle differentiation. TGF-beta induces expression and translocation of OLFM2 to the nucleus where it binds to SRF, causing its dissociation from the transcriptional repressor HEY2/HERP1 and facilitating binding of SRF to target genes (PubMed:25298399). Plays a role in AMPAR complex organization (By similarity). Is a regulator of vascular smooth-muscle cell (SMC) phenotypic switching, that acts by promoting RUNX2 and inhibiting MYOCD binding to SRF. SMC phenotypic switching is the process through which vascular SMCs undergo transition between a quiescent contractile phenotype and a proliferative synthetic phenotype in response to pathological stimuli. SMC phenotypic plasticity is essential for vascular development and remodeling (By similarity).

Cellular Location
Secreted. Synapse {ECO:0000250|UniProtKB:Q8BM13}. Membrane {ECO:0000250|UniProtKB:Q8BM13}. Nucleus Cytoplasm. Note=Nuclear localization is induced by TGF-beta.

Tissue Location
Expressed in aortic smooth muscle (at protein level) (PubMed:25298399). In the fetus, expressed in the brain and ocular tissues including lens vesicle and optic cup (PubMed:27844144)

NOE2 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

NOE2 Antibody (Center) Blocking peptide - Images

NOE2 Antibody (Center) Blocking peptide - Background

The exact function of this protein is yet to be elucidated.

NOE2 Antibody (Center) Blocking peptide - References

Funayama, T., et al. Invest. Ophthalmol. Vis. Sci. 47(12):5368-5375(2006)Mukhopadhyay, A., et al. Mol. Vis. 10, 304-314 (2004) :Grimwood, J., et al. Nature 428(6982):529-535(2004)Tomarev, S.I., et al. Invest. Ophthalmol. Vis. Sci. 44(6):2588-2596(2003)