

OLFM2 Rabbit pAb

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Catalog # AP56054

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O95897
Reactivity	Rat, Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51386
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human OLFM2
Epitope Specificity	61-160/454
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	93145
Other Names	Noelin-2, Olfactomedin-2, OLFM2, NOE2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

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.

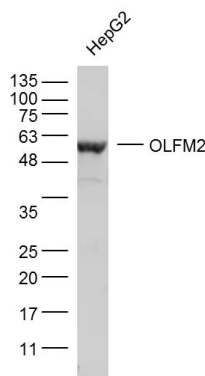
Tissue Location

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)

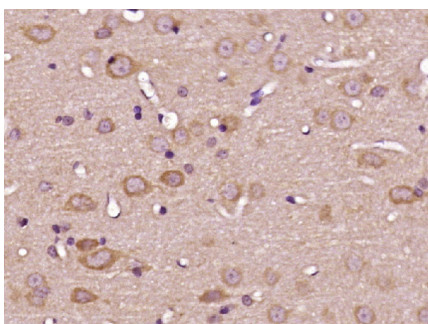
Background

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Images



Sample: HepG2 (human) cell Lysate at 40 ug
Primary: Anti- OLFM2 (AP56054) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 49 kD
Observed band size: 54 kD



Paraformaldehyde-fixed, paraffin embedded (Rat 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 (OLFM2) Polyclonal Antibody, Unconjugated (AP56054) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.