

OPHN1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21819c

Product Information

Application	WB, E
Primary Accession	O60890
Reactivity	Human, Rat, Mouse
Predicted	Canine, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB53386
Calculated MW	91641

Additional Information

Gene ID	4983
Other Names	Oligophrenin-1, OPHN1
Target/Specificity	This OPHN1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 284-315 amino acids from the Central region of human OPHN1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	OPHN1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	OPHN1
Function	Stimulates GTP hydrolysis of members of the Rho family. Its action on RHOA activity and signaling is implicated in growth and stabilization of dendritic spines, and therefore in synaptic function. Critical for the stabilization of AMPA receptors at postsynaptic sites. Critical for the regulation of synaptic vesicle endocytosis at presynaptic terminals. Required for the localization of

NR1D1 to dendrites, can suppress its repressor activity and protect it from proteasomal degradation (By similarity).

Cellular Location

Postsynapse {ECO:0000250|UniProtKB:P0CAX5}. Presynapse {ECO:0000250|UniProtKB:P0CAX5}. Cell projection, axon {ECO:0000250|UniProtKB:P0CAX5}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:P0CAX5}. Cell projection, dendrite {ECO:0000250|UniProtKB:P0CAX5}. Cytoplasm {ECO:0000250|UniProtKB:Q99J31}.

Tissue Location

Expressed in brain.

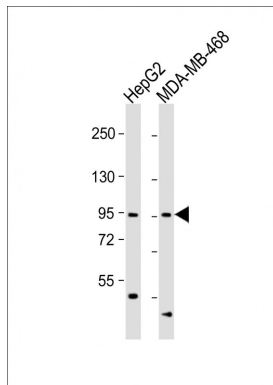
Background

Stimulates GTP hydrolysis of members of the Rho family. Its action on RHOA activity and signaling is implicated in growth and stabilization of dendritic spines, and therefore in synaptic function. Critical for the stabilization of AMPA receptors at postsynaptic sites. Critical for the regulation of synaptic vesicle endocytosis at presynaptic terminals. Required for the localization of NR1D1 to dendrites, can suppress its repressor activity and protect it from proteasomal degradation (By similarity).

References

Billuart P.,et al.Nature 392:923-926(1998).
Tentler D.,et al.Eur. J. Hum. Genet. 7:541-548(1999).
Billuart P.,et al.Ann. Genet. 43:5-9(2000).
Kitano T.,et al.Mol. Biol. Evol. 20:1281-1289(2003).
Ross M.T.,et al.Nature 434:325-337(2005).

Images



All lanes : Anti-OPHN1 Antibody (Center) at 1:1000 dilution
Lane 1: HepG2 whole cell lysate
Lane 2: MDA-MB-468 whole cell lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 92 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

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