

**OPHN1 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21819c****Specification**

---

**OPHN1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O60890</a>
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	91641

**OPHN1 Antibody (Center) - 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.

**OPHN1 Antibody (Center) - 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:Q99J31}. Cytoplasm {ECO:0000250|UniProtKB:Q99J31}

#### Tissue Location

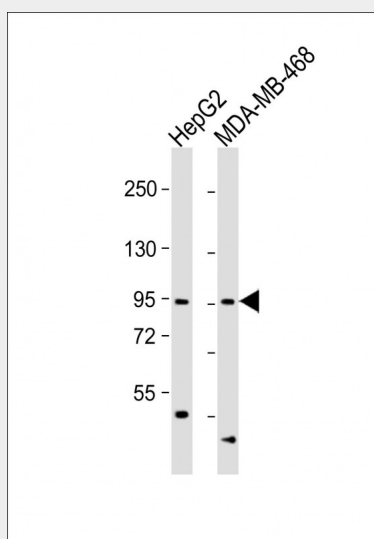
Expressed in brain.

### OPHN1 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### OPHN1 Antibody (Center) - 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.

### OPHN1 Antibody (Center) - 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).

#### **OPHN1 Antibody (Center) - 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).