10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

OPHN1 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant OPHN1.
Catalog # AT3150a

Specification

OPHN1 Antibody (monoclonal) (M03) - Product Information

Application	**WB, E**
Primary Accession	O60890
Other Accession	NM_002547
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**91641**

OPHN1 Antibody (monoclonal) (M03) - Additional Information

Gene ID 4983

Other Names
Oligophrenin-1, OPHN1

Target/Specificity
OPHN1 (NP_002538, 641 a.a. ~ 734 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000
E~~N/A

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
OPHN1 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

OPHN1 Antibody (monoclonal) (M03) - Protocols

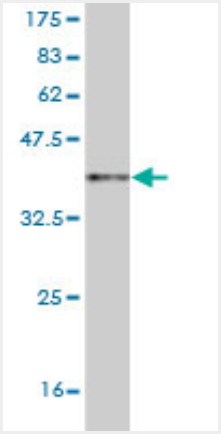
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

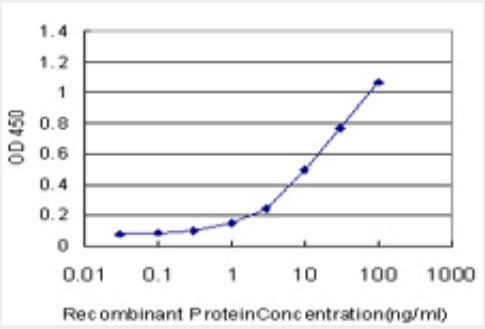
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

OPHN1 Antibody (monoclonal) (M03) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.08 KDa) .



Detection limit for recombinant GST tagged OPHN1 is approximately 0.3ng/ml as a capture antibody.

OPHN1 Antibody (monoclonal) (M03) - Background

This gene encodes a Rho-GTPase-activating protein that promotes GTP hydrolysis of Rho subfamily members. Rho proteins are important mediators of intracellular signal transduction, which affects cell migration and cell morphogenesis. Mutations in this gene are responsible for OPHN1-related X-linked mental retardation with cerebellar hypoplasia and distinctive facial dysmorhphism.

OPHN1 Antibody (monoclonal) (M03) - References

Systematic resequencing of X-chromosome synaptic genes in autism spectrum disorder and schizophrenia. Piton A, et al. Mol Psychiatry, 2010 May 18. PMID 20479760.Mutation of ARHGAP9 in patients with coronary spastic angina. Takefuji M, et al. J Hum Genet, 2010 Jan. PMID 19911011.[Anassociation study between OPHN1 gene rs492933 polymorphism and mental retardation in children of the Qinba Mountain region.] Zhang LJ, et al. Yi Chuan, 2008 Oct. PMID 18930891.Deletion of the OPHN1 gene detected by aCGH. Madrigal I, et al. J Intellect Disabil Res, 2008 Mar. PMID 18261018.Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.