

OPHN1 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant OPHN1.

Catalog # AT3150a

Product Information

Application	WB, E
Primary Accession	O60890
Other Accession	NM_002547
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2B9
Calculated MW	91641

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.

Background

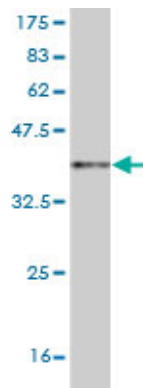
This gene encodes a Rho-GTPase-activating protein that promotes GTP hydrolysis of Rho subfamily members. Rho proteins are important mediators of intracellular signal transduction, which affects cell migration and cell morphogenesis. Mutations in this gene are responsible for OPHN1-related X-linked mental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

References

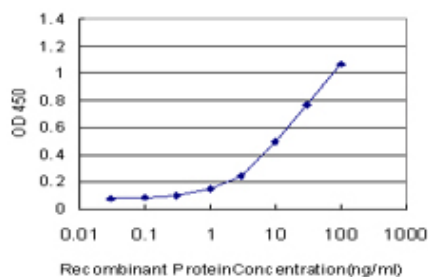
Systematic resequencing of X-chromosome synaptic genes in autism spectrum disorder and schizophrenia. Piton A, et al. Mol Psychiatry, 2010 May 18. PMID 20479760. Mutation of ARHGAP9 in patients with coronary spastic angina. Takefuji M, et al. J Hum Genet, 2010 Jan. PMID 19911011. [An association study 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.

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.

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