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

AZIN1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant AZIN1.
Catalog # AT1250a

Product Information

Application	WB, E
Primary Accession	O14977
Other Accession	NM_015878
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	8B9
Calculated MW	49535

Additional Information

Gene ID	51582
Other Names	Antizyme inhibitor 1, AZI, Ornithine decarboxylase antizyme inhibitor, AZIN1, OAZI, OAZIN
Target/Specificity	AZIN1 (NP_056962, 339 a.a. ~ 447 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	AZIN1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

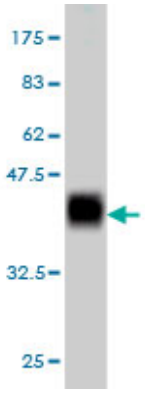
Background

Ornithine decarboxylase (ODC) catalyzes the conversion of ornithine to putrescine in the first and apparently rate-limiting step in polyamine biosynthesis. Ornithine decarboxylase antizymes play a role in the regulation of polyamine synthesis by binding to and inhibiting ornithine decarboxylase. The protein encoded by this gene is highly similar to ODC. It binds to ODC antizyme and stabilizes ODC, thus inhibiting antizyme-mediated ODC degradation. Two alternatively spliced transcript variants have been found for this gene.

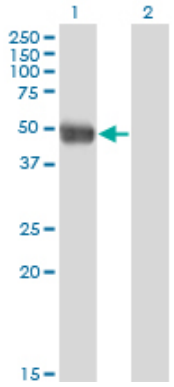
References

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.Yeast two-hybrid screens imply involvement of Fanconi anemia proteins in transcription regulation, cell signaling, oxidative metabolism, and cellular transport. Reuter TY, et al. Exp Cell Res, 2003 Oct 1. PMID 14499622.Redifferentiation of dedifferentiated chondrocytes and chondrogenesis of human bone marrow stromal cells via chondrosphere formation with expression profiling by large-scale cDNA analysis. Imabayashi H, et al. Exp Cell Res, 2003 Aug 1. PMID 12878157.

Images

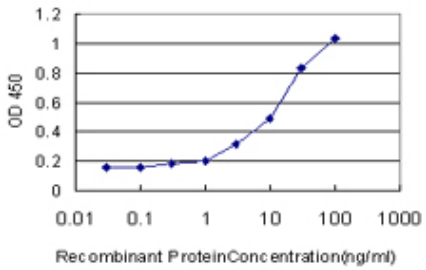


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.73 KDa) .



Western Blot analysis of AZIN1 expression in transfected 293T cell line by AZIN1 monoclonal antibody (M01), clone 8B9.

Lane 1: AZIN1 transfected lysate(49.5 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged AZIN1 is approximately 0.3ng/ml as a capture antibody.