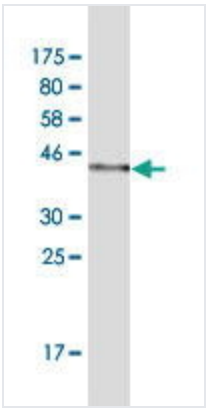
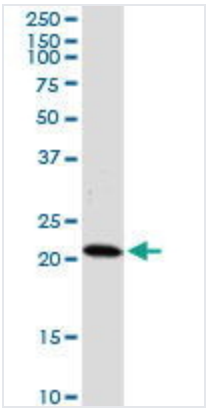
HDDC3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

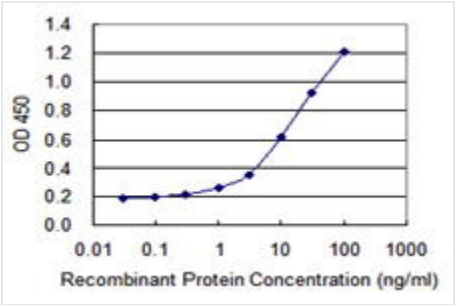
Product Name	HDDC3, Monoclonal Antibody
Full Product Name	HDDC3 (Guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase MESH1, HD Domain-containing Protein 3, Metazoan SpoT Homolog 1, MESH1, P (ppGpp)ase, MESH1, MGC45386) (AP)
Product Gene Name	anti-HDDC3 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	7E6
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human HDDC3.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
3D Structure	ModBase 3D Structure for Q8N4P3
Immunogen	Full length recombinant protein corresponding to aa1-140 from human HDDC3 (NP_940929) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MGSEAAQLLEAADFAARKHRQQRRKDPEGTPYINHPIGVARILTHEAGITDIVVLQAALLHDTVEDTDTTLDEVELHFGAQVRRLVEEVTDDKTLPKLERKR
Conjugate	AP
Product Categories/Family for anti-HDDC3 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-HDDC3 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-HDDC3 antibody	Sandwich ELISA: The detection limit is ~0.3ng/ml as a capture antibody. Applications are based on unconjugated antibody.
Related Product Information for anti-HDDC3 antibody	MBS6131640 is an antibody targeting HDDC3. Also known as HDDC3 (Guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase MESH1, HD Doma MESH1, Penta-phosphate Guanosine-3'-pyrophosphohydrolase, (ppGpp)ase, MESH1, MGC45386) (AP). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-HDDC3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-HDDC3 antibody
Western Blot detection against Immunogen (42.7kD).



Western Blot (WB) of anti-HDDC3 antibody
HDDC3 monoclonal antibody Western Blot analysis of HDDC3 expression in MCF-7.



Testing Data of anti-HDDC3 antibody
Detection limit for recombinant GST tagged HDDC3 is 0.3ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HDDC3. It may not necessarily be applicable to this product.

NCBI GI #	38348360
NCBI GeneID	374659
NCBI Accession #	NP_940929.1
UniProt Primary Accession #	Q8N4P3
UniProt Related Accession #	Q8N4P3
GenBank Nucleotide #	NM_198527
NCBI Official Full Name	guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase MESH1 isoform 2
NCBI Official Synonym Full Names	HD domain containing 3
NCBI Official Symbol	HDDC3
NCBI Official Synonym Symbols	MESH1; (ppGpp)ase
UniProt Protein Name	Guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase MESH1
UniProt Synonym Protein Names	HD domain-containing protein 3; Metazoan SpoT homolog 1; MESH1; Penta-phosphate guanosine-3'-pyrophosphohydrolase; (ppGpp)ase
UniProt Gene Name	HDDC3
UniProt Synonym Gene Names	MESH1; MESH1; (ppGpp)ase
UniProt Entry Name	MESH1_HUMAN
NCBI Protein Information	guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase MESH1

UniProt Comments for HDDC3	HDDC3: ppGpp hydrolyzing enzyme involved in starvation response. Belongs to the MESH1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.1.7.2 Chromosomal Location of Human Ortholog: 15q26.1 Molecular Function: guanosine-3',5'-bis(diphosphate) 3'-diphosphatase activity; metal ion binding Biological Process: metabolic process
Research Articles on HDDC3	**1.** Mesh1, encoded by HDDC3 in humans, contains an active site for ppGpp hydrolysis and a conserved His-Asp-box motif for Mn(2+) binding. It catalyzes hydrolysis of ppGpp both in vitro and in vivo.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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