

For Research Use Only

HDAC4 Monoclonal antibody

Catalog Number: 66838-1-Ig **3 Publications**



Basic Information

Catalog Number: 66838-1-Ig	GenBank Accession Number: BC039904	Purification Method: Protein A purification
Size: 150ul, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 9759	CloneNo.: 1D2G12
Source: Mouse	Full Name: histone deacetylase 4	Recommended Dilutions: WB 1:1000-1:3000 IHC 1:300-1:1200
Isotype: IgG2a	Calculated MW: 972 aa, 106 kDa	
Immunogen Catalog Number: AG11345	Observed MW: 140 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : HeLa cells, IHC : human breast cancer tissue,
Cited Applications: IF, WB	
Species Specificity: Human, rat, mouse	
Cited Species: human	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

HDAC4, also named as HDACA, belongs to the histone deacetylase family. HDAC4 is responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. HDAC4 is involved in muscle maturation via its interaction with the myocyte enhancer factors such as MEF2A, MEF2C and MEF2D.

Notable Publications

Author	Pubmed ID	Journal	Application
Yongyun Li	34536440	J Mol Cell Cardiol	IF
Wei Zhan	32404892	Oncogenesis	WB
Wei Jie	35132916	Virulence	IF

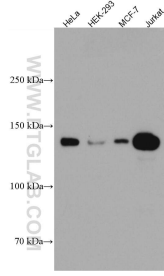
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

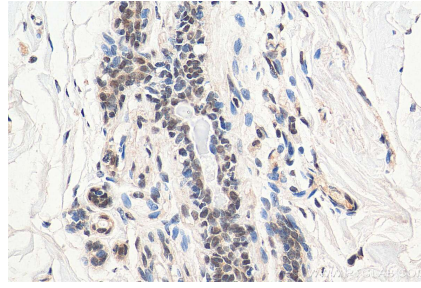
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66838-1-Ig (HDAC4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66838-1-Ig (HDAC4 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).