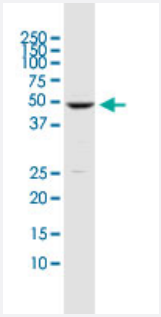
DUSP5 monoclonal antibody (M04), clone 2F3

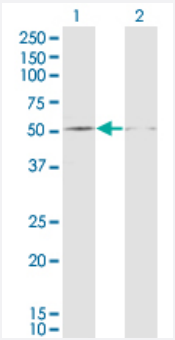
Catalog # H00001847-M04 Size 100 ug

Applications



Western Blot (Cell lysate)

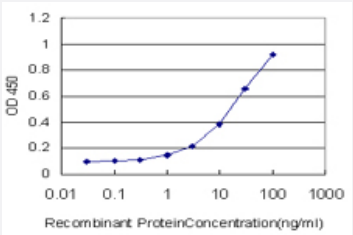
DUSP5 monoclonal antibody (M04), clone 2F3 Western Blot analysis of DUSP5 expression in K-562 (Cat # L009V1).



Western Blot (Transfected lysate)

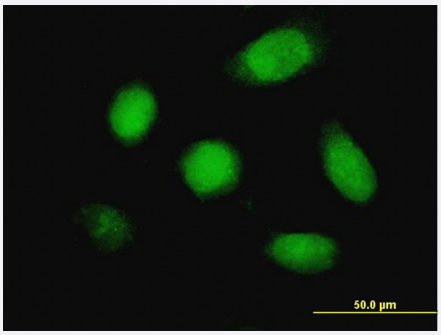
Western Blot analysis of DUSP5 expression in transfected 293T cell line by DUSP5 monoclonal antibody (M04), clone 2F3.

Lane 1: DUSP5 transfected lysate (Predicted MW: 42.1 KDa).
Lane 2: Non-transfected lysate.



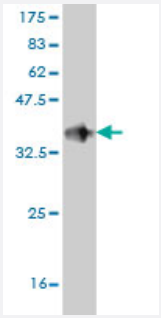
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged DUSP5 is approximately 1ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to DUSP5 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant DUSP5.
Immunogen	DUSP5 (NP_004410, 286 a.a. ~ 384 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	LKEAFDYIKQRRSMVSPNFGFMGQLLQYESEILPSTPNPQPPSCQGEAAGSSLIGHLQTLSPDMQGAYCTFPASVLAPVPTHSTVSELSRSPVATATSC
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (88)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

  DUSP5 monoclonal antibody (M04), clone 2F3 Western Blot analysis of DUSP5 expression in K-562 (Cat # L009V1).

  Protocol Download

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  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged DUSP5 is approximately 1ng/ml as a capture antibody.

  Protocol Download

- ELISA

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to DUSP5 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — DUSP5

Entrez GeneID	1847
GeneBank Accession#	NM_004419
Protein Accession#	NP_004410
Gene Name	DUSP5
Gene Alias	DUSP, HVH3
Gene Description	dual specificity phosphatase 5

Omim ID	603069
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product inactivates ERK1, is expressed in a variety of tissues with the highest levels in pancreas and brain, and is localized in the nucleus. [provided by RefSeq
Other Designations	OTTHUMP00000020476|VH1-like phosphatase 3|serine/threonine specific protein phosphatase

Publication Reference

- Zinc-Finger Nuclease Knockout of Dual-Specificity Protein Phosphatase-5 Enhances the Myogenic Response and Autoregulation of Cerebral Blood Flow in FHH.1BN Rats.

  Fan F, Geurts AM, Pabbidi MR, Smith SV, Harder DR, Jacob H, Roman RJ.

  PLoS One 2014 Nov; 9(11):e112878.

  Application: WB-Ti, Rat, Cerebral microvessels, Liver, Brain, Spleen

Pathway

- MAPK signaling pathway

Disease

- Alzheimer Disease
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Ovarian Neoplasms