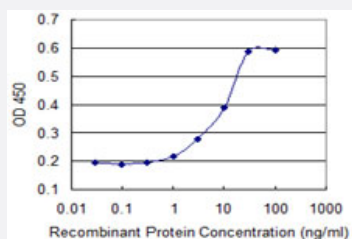


DUSP1 monoclonal antibody (M05), clone 3A9

Catalog # H00001843-M05

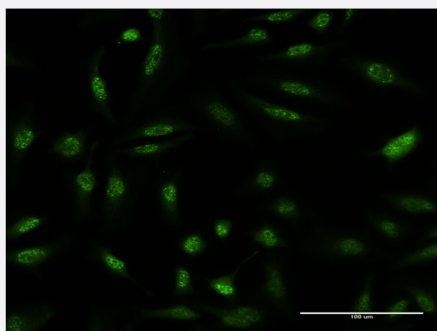
Size 100 ug

Applications



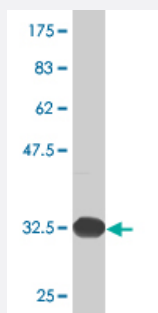
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged DUSP1 is 0.3 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to DUSP1 on HeLa cell .
[antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (32.67 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant DUSP1.

Immunogen	DUSP1 (NP_004408, 305 a.a. ~ 367 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	LLQFESQVLAPHCSAEAGSPAMAVLDRGTSTTTVFNFVSIPIVHSTNSALSYLQSPITTSPSC
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (95); Rat (97)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (32.67 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 (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged DUSP1 is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to DUSP1 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — DUSP1

Entrez GeneID	1843
GeneBank Accession#	NM_004417
Protein Accession#	NP_004408

Gene Name	DUSP1
Gene Alias	CL100, HVH1, MKP-1, MKP1, PTPN10
Gene Description	dual specificity phosphatase 1
Omim ID	600714
Gene Ontology	Hyperlink
Gene Summary	The expression of DUSP1 gene is induced in human skin fibroblasts by oxidative/heat stress and growth factors. It specifies a protein with structural features similar to members of the non-receptor-type protein-tyrosine phosphatase family, and which has significant amino-acid sequence similarity to a Tyr/Ser-protein phosphatase encoded by the late gene H1 of vaccinia virus. The bacterially expressed and purified DUSP1 protein has intrinsic phosphatase activity, and specifically inactivates mitogen-activated protein (MAP) kinase in vitro by the concomitant dephosphorylation of both its phosphothreonine and phosphotyrosine residues. Furthermore, it suppresses the activation of MAP kinase by oncogenic ras in extracts of <i>Xenopus</i> oocytes. Thus, DUSP1 may play an important role in the human cellular response to environmental stress as well as in the negative regulation of cellular proliferation. [provided by RefSeq]
Other Designations	serine/threonine specific protein phosphatase

Publication Reference

- [Growth Hormone Releasing Peptide-2 Attenuation of Protein Kinase C-Induced Inflammation in Human Ovarian Granulosa Cells.](#)

Chao YN, Sun D, Peng YC, Wu YL.

International Journal of Molecular Sciences 2016 Aug; 17(8).

Application: WB-Ce, Human, Human ovarian granulosa cell KGN

- [DUSP5 and DUSP6 modulate corneal epithelial cell proliferation.](#)

Zheng Wang, Peter S Reinach, Fan Zhang, Kati-Sisko Vellonen, Arto Urtti, Helen Turner, J Mario Wolosin.

Molecular Vision 2010 Aug; 16:1696.

Application: WB-Tr, Human, Human corneal epithelial cells

Pathway

- [MAPK signaling pathway](#)

Disease

- [Arthritis](#)
- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Multiple Sclerosis](#)