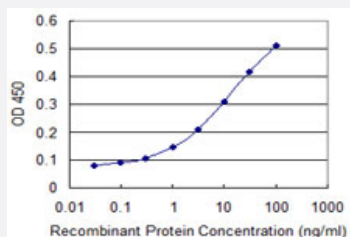


DUSP1 monoclonal antibody (M02), clone 4H7

Catalog # H00001843-M02

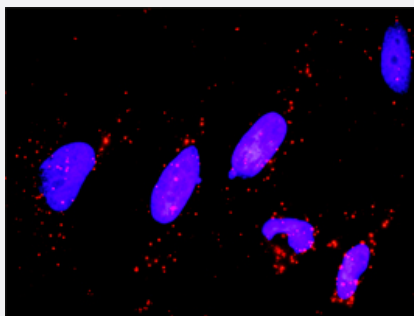
Size 100 ug

Applications



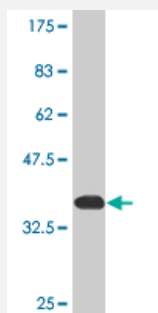
Sandwich ELISA (Recombinant protein)

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



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between MAPK3 and DUSP1. HeLa cells were stained with anti-MAPK3 rabbit purified polyclonal 1:1200 and anti-DUSP1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



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 | IgG1 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

- *In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between MAPK3 and DUSP1. HeLa cells were stained with anti-MAPK3 rabbit purified polyclonal 1:1200 and anti-DUSP1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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 | <p>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 Xenopus 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]</p> |
| Other Designations | serine/threonine specific protein phosphatase |

Pathway

- [MAPK signaling pathway](#)

Disease

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

- [Multiple Sclerosis](#)