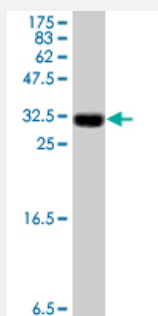


# DUSP1 polyclonal antibody (A01)

Catalog # H00001843-A01

Size 50 uL

## Applications



Western Blot detection against Immunogen (6.67 KDa) .

## Specification

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Mouse polyclonal antibody raised against a partial recombinant DUSP1.                                   |
| <b>Immunogen</b>                     | DUSP1 (NP_004408, 305 a.a. ~ 367 a.a) partial recombinant protein with GST tag.                         |
| <b>Sequence</b>                      | LLQFESQVLAPHCSAEAGSPAMAVLDRGTSTTTVFNFPVSIPIVHSTNSALSYLQSPITTPSC                                         |
| <b>Host</b>                          | Mouse                                                                                                   |
| <b>Reactivity</b>                    | Human                                                                                                   |
| <b>Interspecies Antigen Sequence</b> | Mouse (95); Rat (97)                                                                                    |
| <b>Quality Control Testing</b>       | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (6.67 KDa) . |
| <b>Storage Buffer</b>                | 50 % glycerol                                                                                           |
| <b>Storage Instruction</b>           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                |

## Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

## 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 *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]

**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](#)