

DUSP1 antibody

Catalog No: #38498

Package Size: #38498-1 50ul #38498-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

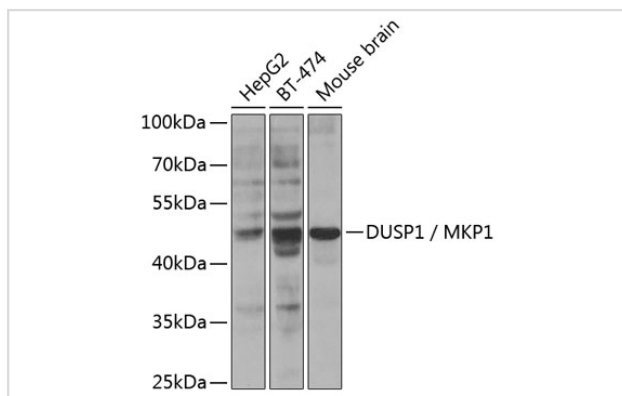
Description

Product Name	DUSP1 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total DUSP1 protein.
Immunogen Type	Peptide
Immunogen Description	A synthetic peptide of human DUSP1.
Target Name	DUSP1
Other Names	HVH1;MKP1;CL100;MKP-1;PTPN10;
Accession No.	Swiss-Prot#: P28562NCBI Gene ID: 1843
Uniprot	P28562
GeneID	1843;
SDS-PAGE MW	39kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

WB □ 1:500 - 1:2000IF □ 1:50 - 1:200

Images



Western blot analysis of extracts of various cell lines, using DUSP1 / MKP1 at 1:300 dilution.

Background

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.

Note: This product is for in vitro research use only