

MKP-1 (phospho-Ser359) Polyclonal Antibody

Catalog No: #13706



Package Size: #13706-1 50ul #13706-2 100ul

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Description

Product Name	MKP-1 (phospho-Ser359) Polyclonal Antibody
Host Species	Rabbit
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	IHC-p,IF(paraffin section),ELISA
Species Reactivity	Human
Specificity	Phospho-MKP-1 (S359) Polyclonal Antibody detects endogenous levels of MKP-1 protein only when phosphorylated at S359.
Immunogen Description	The antiserum was produced against synthesized peptide derived from human MKP1 around the phosphorylation site of Ser359. AA range:318-367
Other Names	DUSP1; CL100; MKP1; PTPN10; VH1; Dual specificity protein phosphatase 1; Dual specificity protein phosphatase hVH1; Mitogen-activated protein kinase phosphatase 1; MAP kinase phosphatase 1; MKP-1; Protein-tyrosine phosphatase CL100
Accession No.	Swiss Prot:P28562GeneID:1843
Calculated MW	39kd
Concentration	1 mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	-20°C/1

Application Details

Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.

Background

dual specificity phosphatase 1(DUSP1) Homo sapiens 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.

Published Papers

el at., DUSP1/MKP-1 represents another piece in the P2X7R intracellular signaling puzzle in cerebellar cells: our last journey with Ma Teresa along the purinergic pathways of EdenInPurinergic SignalOn2023 Sep 30byJuan Carlos Gil-Redondo et al..PMID:37776398, (2023)

[PMID:37776398](https://pubmed.ncbi.nlm.nih.gov/37776398/)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.