



MKP-1 (phospho Ser359) rabbit pAb

Cat#: orb767904 (Manual)

For research use only. Not intended for diagnostic use.

Product Name MKP-1 (phospho Ser359) rabbit pAb

Host species Rabbit

Applications IHC;IF;ELISA

Species Cross-Reactivity Human; Rat; Mouse;

Recommended dilutions Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in

other applications.

Immunogen The antiserum was produced against synthesized peptide derived from

human MKP1 around the phosphorylation site of Ser359. AA range:318-367

Specificity Phospho-MKP-1 (S359) Polyclonal Antibody detects endogenous levels of

MKP-1 protein only when phosphorylated at S359.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium

azide..

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Dual specificity protein phosphatase 1

Gene Name DUSP1

Cellular localization Nucleus.

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Clonality Polyclonal





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Concentration 1 mg/ml

Observed band

Human Gene ID 1843

Human Swiss-Prot Number P28562

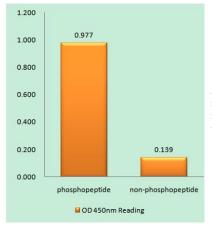
Alternative Names

DUSP1; CL100; MKP1; PTPN10; VH1; Dual specificity protein phosphatase 1; Dual specificity protein phosphatase hVH1; Mitogenactivated protein kinase phosphatase 1; MAP kinase phosphatase 1; MKP-1;

Protein-tyrosine phosphatase CL100

Background

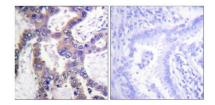
The expression of DUSP1 gene is induced in human skin fibroblasts by oxidative/heat stress and growth factors. It specifies a protein with structural features similar to members of the non-receptor-type proteintyrosine phosphatase family, and which has significant amino-acid sequence similarity to a 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 proliferati



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using MKP1 (Phospho-Ser359) Antibody







Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using MKP1 (Phospho-Ser359) Antibody. The picture on the right is blocked with the phospho peptide.