

MKP-1 Polyclonal Antibody

Catalog No. E-AB-12400

Note: Centrifuge before opening to ensure complete recovery of vial contents.

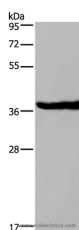
Description

Reactivity	Human, Mouse, Rat
Immunogen	Synthetic peptide of human DUSP1
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Conjugation	Unconjugated
Buffer	PBS with 0.05% sodium azide and 50% glycerol, PH7.4

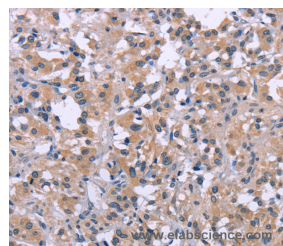
Applications Recommended Dilution

WB 1:200-1:1000,
IHC 1:25-1:100

Data



Western Blot analysis of Mouse brain tissue using MKP-1 Polyclonal Antibody at dilution of 1:363
Calculated Mw:39kDa



Immunohistochemistry of paraffin-embedded Human thyroid cancer using MKP-1 Polyclonal Antibody at dilution of 1:30

Preparation & Storage

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

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.

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