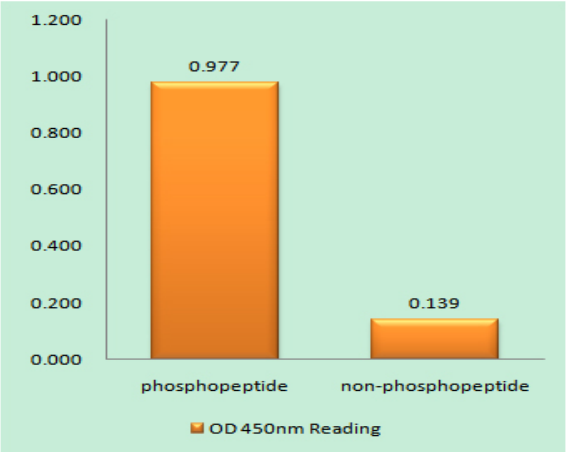
Best Tools for immunology Research

MKP-1 (phospho Ser359) Polyclonal Antibody

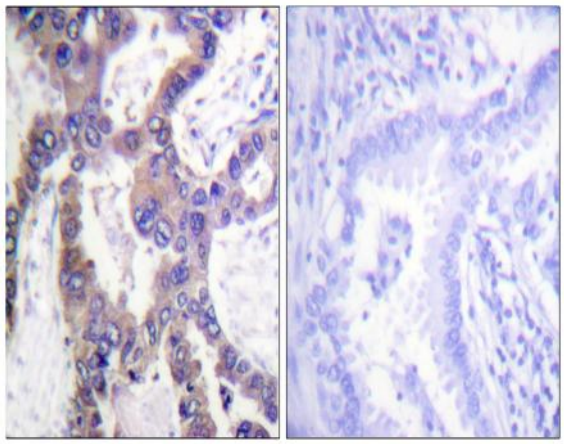
Catalog No :	YP1010
Reactivity :	Human;Rat;Mouse;
Applications :	IHC;IF;ELISA
Target :	MKP-1
Fields :	>>MAPK signaling pathway;>>Serotonergic synapse;>>Parkinson disease;>>Fluid shear stress and atherosclerosis
Gene Name :	DUSP1
Protein Name :	Dual specificity protein phosphatase 1
Human Gene Id :	1843
Human Swiss Prot No :	P28562
Mouse Swiss Prot No :	P28563
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.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	39kD
Cell Pathway :	MAPK_ERK_Growth;MAPK_G_Protein;
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 proliferati
Function :	catalytic activity:A phosphoprotein + H(2)O = a protein + phosphate.,catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,function:Dual specificity phosphatase that dephosphorylates MAP kinase ERK2 on both 'Thr-183' and 'Tyr-185'.,induction:By oxidative stress and heat shock.,similarity:Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily.,similarity:Contains 1 rhodanese domain.,similarity:Contains 1 tyrosine-protein phosphatase domain.,tissue specificity:Expressed at high levels in the lung, liver placenta and pancreas. Moderate levels seen in the heart and skeletal muscle. Lower levels found in the brain and kidney.,
Subcellular Location :	Nucleus .
Expression :	Expressed at high levels in the lung, liver placenta and pancreas. Moderate levels seen in the heart and skeletal muscle. Lower levels found in the brain and kidney.
Sort :	9660
No2 :	2857S
No4 :	1

Products Images



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.