



MKP-2 Monoclonal Antibody

Catalog No	YP-mAb-14848
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	DUSP4
Immunogen	The antiserum was produced against synthesized peptide derived from human DUSP4. AA range:81-130
Specificity	MKP-2 Monoclonal Antibody detects endogenous levels of MKP-2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DUSP4;MKP-2;dual specificity phosphatase 4;EC:3.1.3.16;EC:3.1.3.48;Dual specificity protein phosphatase 4;MKP2;VH2;Dual specificity protein phosphatase hVH2;Mitogen-activated protein kinase phosphatase 2;MAP kinase phosphatase 2
Observed Band	44kD
Calculated Molecular Weight	44kD
Cell Pathway	Nucleus .
Tissue Specificity	Skin,Uterus,
Function	catalytic activity:A phosphoprotein + H(2)O = a protein + phosphate.,catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate., function:Regulates mitogenic signal transduction by dephosphorylating both Thr and Tyr residues on MAP kinases ERK1 and ERK2.,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.,



Background

The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product inactivates ERK1, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus. Two alternatively spliced transcript variants, encoding distinct isoforms, have been observed.

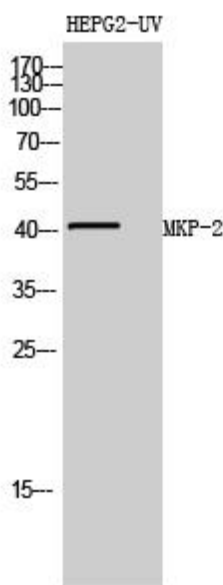
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using MKP-2 Monoclonal Antibody