

Product Name: MKP-2 Rabbit Polyclonal Antibody**Catalog #: APRab13933**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat,Monkey
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
Molecular Weight	44kDa

Antigen Information

Gene Name	DUSP4
Alternative Names	DUSP4; MKP2; VH2; Dual specificity protein phosphatase 4; Dual specificity protein phosphatase hVH2; Mitogen-activated protein kinase phosphatase 2; MAP kinase phosphatase 2; MKP-2
Gene ID	1846.0
SwissProt ID	Q13115
Immunogen	The antiserum was produced against synthesized peptide derived from human DUSP4. AA range:81-130

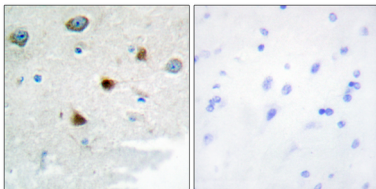
Background

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. catalytic activity: A phosphoprotein + H₂O = a protein + phosphate, catalytic activity: Protein tyrosine phosphate + H₂O = 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,

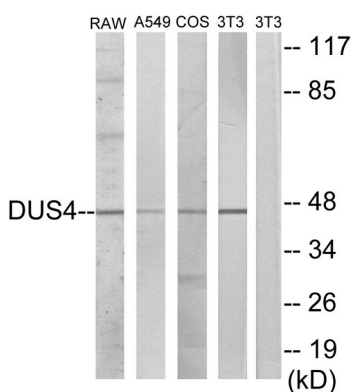
Research Area

MAPK_ERK_Growth; MAPK_G_Protein;

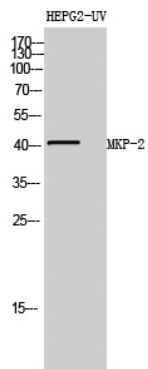
Image Data



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using DUSP4 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from RAW264.7, A549, COS7, and NIH/3T3 cells, using DUSP4 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of HEPG2-UV cells using MKP-2 Polyclonal Antibody diluted at 1 : 1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA) .