



MKP-2 rabbit pAb

Cat No.:ES5030

For research use only

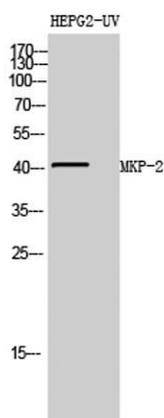
Overview

Product Name	MKP-2 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat;Monkey
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human DUSP4. AA range:81-130
Specificity	MKP-2 Polyclonal Antibody detects endogenous levels of MKP-2 protein.
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 4
Gene Name	DUSP4
Cellular localization	Nucleus .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	44kD
Human Gene ID	1846
Human Swiss-Prot Number	Q13115
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
Background	The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases



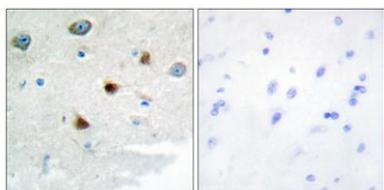


by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family 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.



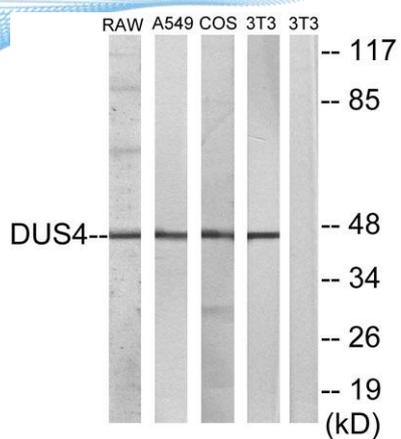
Western Blot analysis of HEPG2-UV cells using MKP-2 Polyclonal Antibody diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).

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





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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.



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