Catalog #: APRab13932



## **Summary**

**Production Name** MKP-1/2 Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

**Host** Rabbit

**Application** WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA

**Reactivity** Human, Mouse, Rat

#### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer** 

preservative N.

**Purification** Affinity purification

### **Immunogen**

Gene Name DUSP1/4

DUSP1; CL100; MKP1; PTPN10; VH1; Dual specificity protein phosphatase 1; Dual

Alternative Names specificity protein phosphatase hVH1; Mitogen-activated protein kinase phosphatase

1; MAP kinase phosphatase 1; MKP-1; Protein-tyrosine phosphatase CL100; DUSP4;

**Gene ID** 1843/1846

P28562/Q13115.The antiserum was produced against synthesized peptide derived SwissProt ID

from human MKP-1/2. AA range:261-310

## **Application**

**Dilution Ratio** WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200

Molecular Weight 41kDa

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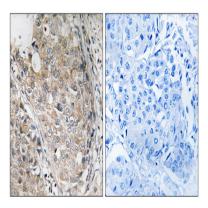
## **Background**

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 proliferaticatalytic 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.,

#### **Research Area**

MAPK ERK Growth; MAPK G Protein;

#### **Image Data**

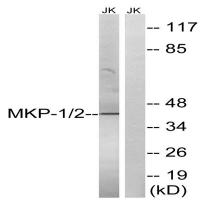


Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using MKP-1/2 Antibody. The picture on the right is blocked with the synthesized peptide.

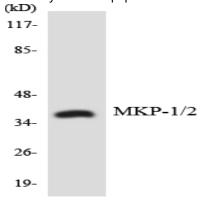
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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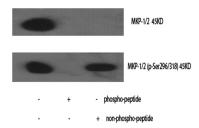




Western blot analysis of lysates from Jurkat cells, using MKP-1/2 Antibody. The lane on the right is blocked with the synthesized peptide.



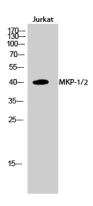
Western blot analysis of the lysates from HepG2 cells using MKP-1/2 antibody.



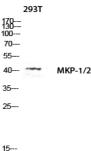
Western Blot analysis of various cells using MKP-1/2 Polyclonal Antibody diluted at 1: 1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA) .

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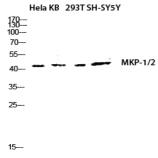




Western Blot analysis of Jurkat cells using MKP-1/2 Polyclonal Antibody diluted at 1: 1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA) .



Western blot analysis of 293T lysis using MKP-1/2 antibody. Antibody was diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA) .



Western blot analysis of Hela KB 293T SH-SY5Y lysis using MKP-1/2 antibody. Antibody was diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).

#### Note

For research use only.