



Rabbit Anti-Phospho-MKP1 (Ser359) antibody

SL3278R

Product Name:	Phospho-MKP1 (Ser359)
Chinese Name:	磷酸化丝裂原活化蛋白激酶磷酸酶-1抗体
Alias:	DUSP1 (phospho S359); DUSP1; Mitogen activated protein kinase phosphatase 1; CL100; CL100; Dual Specificity Phosphatase 1; Dual specificity protein phosphatase 1; Dual specificity protein phosphatase hVH1; DUSP 1; DUSP-1; EC 3.1.3.16; EC 3.1.3.48; HVH 1; HVH1; MAP kinase phosphatase 1; MKP 1; MKP1; MKP-1; Protein tyrosine phosphatase CL100; PTPN 10; PTPN10; Serine/threonine specific protein phosphatase; VH 1; VH1; 3ch134; Mkp1; Ptpn16.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Rat,Chicken,Dog,Pig,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	40kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human MKP1 around the phosphorylation site of Ser359:LQ(p-S)PI
Isotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

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.

Function:

Dual specificity phosphatase that dephosphorylates MAP kinase ERK2 on both 'Thr-183' and 'Tyr-185'.

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.

Similarity:

Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily.

Contains 1 rhodanese domain.

Contains 1 tyrosine-protein phosphatase domain.

Product Detail:

SWISS:

P28562

Gene ID:

1843

Database links:

[Entrez Gene: 1843](#)Human

[Entrez Gene: 19252](#)Mouse

[Entrez Gene: 114856](#)Rat

[Omim: 600714](#)Human

[SwissProt: P28562](#)Human

[SwissProt: P28563](#)Mouse

[SwissProt: Q64623](#)Rat

[Unigene: 171695](#)Human

[Unigene: 239041](#)Mouse

[Unigene: 98260](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

MKPs是一类丝氨酸/苏氨酸和酪氨酸双重底物特异性的磷酸酶,对于丝裂素活化蛋白激酶活性的调节起着十分重要的作用,可使丝裂素活化蛋白激酶上的苏氨酸/酪氨酸去磷酸化失活。目前研究发现MKPs分别有MKP-1、MKP-2、MKP-3及MKP4-6。

MKPs受MAPK信号通路中多种成分的诱导,决定了它与MAPK之间作用的特异性。

通过去磷酸化作用调节MAPK信号途径的活性,确保了细胞内信号的精确传递,参与了多种主要的细胞功能的调节。

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