

**产品名称: MKP-1 (phospho Ser359) Rabbit Polyclonal Antibody**  
**产品货号: APRab05024**



## 产品概述 (Summary)

|                        |                                                   |
|------------------------|---------------------------------------------------|
| 产品名称 (Production Name) | MKP-1 (phospho Ser359) Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody                        |
| 宿主 (Host)              | Rabbit                                            |
| 应用 (Application)       | IHC, ICC, IF, ELISA                               |
| 种属反应性 (Reactivity)     | Human, Rat, Mouse                                 |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Phosphorylated                                                                                    |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | DUSP1                                                                                                                                                                                                                                   |
| 别名 (Alternative Names) | DUSP1; CL100; MKP1; PTPN10; VH1; Dual specificity protein phosphatase 1; Dual specificity protein phosphatase hVH1; Mitogen-activated protein kinase phosphatase 1; MAP kinase phosphatase 1; MKP-1; Protein-tyrosine phosphatase CL100 |
| 基因 ID (Gene ID)        | 1843.0                                                                                                                                                                                                                                  |
| 蛋白 ID (SwissProt ID)   | P28562. The antiserum was produced against synthesized peptide derived from human MKP1 around the phosphorylation site of Ser359. AA range: 318-367                                                                                     |

## 产品应用 (Application)

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稀释比 (Dilution Ratio)

IHC 1:100-1:300, ICC/IF 1:50-1:200, ELISA 1:5000-1:20000

蛋白分子量 (Molecular Weight)

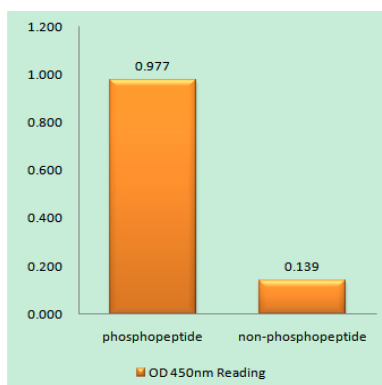
## 研究背景 (Background)

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 proliferative activity. A phosphoprotein + H<sub>2</sub>O = a protein + phosphate, catalytic activity: Protein tyrosine phosphate + H<sub>2</sub>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.

## 研究领域 (Research Area)

MAPK\_ERK\_Growth; MAPK\_G\_Protein;

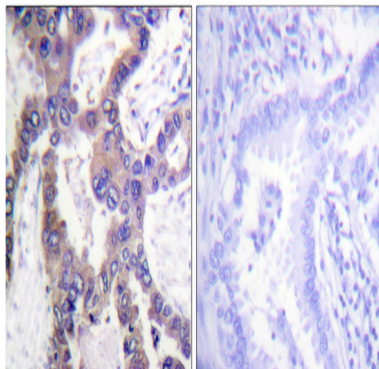
## 图片 (Image Data)



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using MKP1 (Phospho-Ser359) Antibody

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Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using MKP1 (Phospho-Ser359) Antibody.  
The picture on the right is blocked with the phospho peptide.

#### **注意事项 (Note)**

For research use only .