

## Product datasheet for **AP20456PU-M**

### DUSP9 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200. <b>Immunofluorescence:</b> 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of MKP-4 protein. (region surrounding Ala174)
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 42 kDa
Gene Name:	dual specificity phosphatase 9
Database Link:	<u><a href="#">Entrez Gene 75590 Mouse</a></u> <u><a href="#">Entrez Gene 293847 Rat</a></u> <u><a href="#">Entrez Gene 1852 Human</a></u> <u><a href="#">Q99956</a></u>

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**Background:**

Mitogen-activated protein (MAP) kinases are a large class of proteins involved in signal transduction pathways that are activated by a range of stimuli and mediate a number of physiological and pathological changes in the cell. Dual specificity phosphatases (DSPs) are a subclass of the protein tyrosine phosphatase (PTP) gene superfamily, which are selective for dephosphorylating critical phosphothreonine and phosphotyrosine residues within MAP kinases. DSP gene expression is induced by a host of growth factors and/or cellular stresses, thereby negatively regulating MAP kinase superfamily members including MAPK/ERK, SAPK/JNK and p38. The members of the dual-specificity phosphatase protein family include MKP-1/CL100 (3CH134), VHR, PAC1, MKP-2, hVH-3 (B23), hVH-5, MKP-3, MKP-X and MKP-4. Human MKP-1 maps to chromosome 5q34 and encodes a 367 amino acid, 39 kDa protein that dephosphorylates MAP kinase ERK2 on both Thr-183 and Tyr-185.

**Synonyms:**

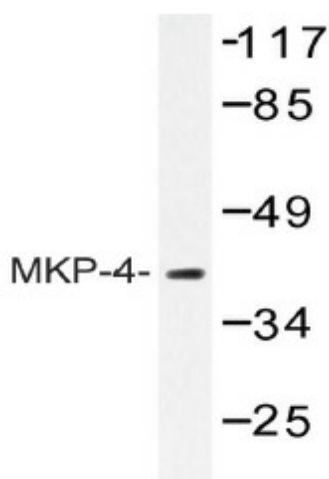
MAP kinase phosphatase 4

**Protein Families:**

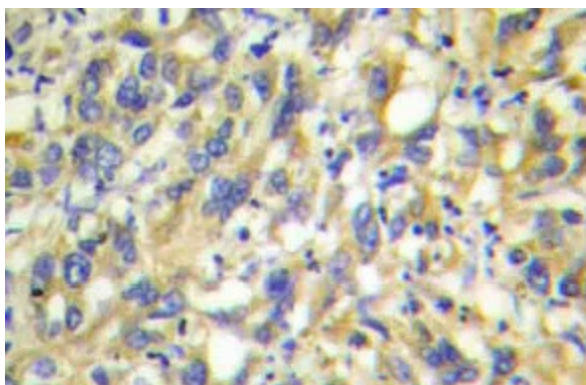
Phosphatase

**Protein Pathways:**

MAPK signaling pathway

**Product images:**


Western blot (WB) analysis of MKP-4 antibody (Cat.-No.: [AP20456PU-N]) in extracts from HeLa cells.



Immunohistochemistry (IHC) analysis of MKP-4 antibody (Cat.-No.: [AP20456PU-N]) in paraffin-embedded human liver carcinoma tissue.