

# DUSP6 Rabbit mAb

Catalog # AP79024

## Product Information

|                   |                         |
|-------------------|-------------------------|
| Application       | WB, IHC-P, FC, IP       |
| Primary Accession | <a href="#">Q16828</a>  |
| Reactivity        | Rat, Human, Mouse       |
| Host              | Rabbit                  |
| Clonality         | Monoclonal Antibody     |
| Isotype           | IgG                     |
| Conjugate         | Unconjugated            |
| Purification      | Affinity Chromatography |
| Calculated MW     | 42320                   |

## Additional Information

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Gene ID     | 1848                                                                                               |
| Other Names | DUSP6                                                                                              |
| Dilution    | WB~~1:1000 IHC-P~~N/A FC~~1:10~50 IP~~N/A                                                          |
| Format      | Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol. |
| Storage     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.           |

## Protein Information

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|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | DUSP6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Synonyms          | MKP3, PYST1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Function          | Dual specificity protein phosphatase, which mediates dephosphorylation and inactivation of MAP kinases (PubMed: <a href="#">8670865</a> ). Has a specificity for the ERK family (PubMed: <a href="#">8670865</a> ). Plays an important role in alleviating chronic postoperative pain (By similarity). Necessary for the normal dephosphorylation of the long-lasting phosphorylated forms of spinal MAPK1/3 and MAP kinase p38 induced by peripheral surgery, which drives the resolution of acute postoperative allodynia (By similarity). Also important for dephosphorylation of MAPK1/3 in local wound tissue, which further contributes to resolution of acute pain (By similarity). Promotes cell differentiation by regulating MAPK1/MAPK3 activity and regulating the expression of AP1 transcription factors (PubMed: <a href="#">29043977</a> ). |
| Cellular Location | Cytoplasm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Tissue Location**

Expressed in keratinocytes (at protein level).

**Background**

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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 ERK2, is expressed in a variety of tissues with the highest levels in heart and pancreas, and unlike most other members of this family, is localized in the cytoplasm. Mutations in this gene have been associated with congenital hypogonadotropic hypogonadism. Alternatively spliced transcript variants have been found for this gene.

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