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Rabbit Anti-DUSP26/AP Conjugated antibody

SL14459R-AP

Product Name	Anti-DUSP26/AP
Chinese Name	碱性磷酸酶（AP）标记的双特异性磷酸酶抗体 26 抗体
Alias	DSP-4; Dual specificity phosphatase 26 (putative); Dual specificity phosphatase 26; Dual specificity phosphatase SKRP3; Dual specificity protein phosphatase 26; DUS26_HUMAN; DUSP24; DUSP26; Hypothetical protein FLJ31142; LDP 4; LDP-4; Low molecular mass dual specificity phosphatase 4; Low-molecular-mass dual-specificity phosphatase 4; MAP kinase phosphatase 8; MGC1136; MGC2627; Mitogen activated protein kinase phosphatase 8; Mitogen-activated protein kinase phosphatase 8; MKP-8; MKP8; NATA1; NATA1 protein; Novel amplified gene in thyroid anaplastic cancer; SKRP3.
Research Area	Cell biology Neurobiology Signal transduction Kinases and Phosphatases
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Pig,Cow,Horse,Rabbit,Gorilla,Opossum,Marmoset (common), Orangutan)
Applications	IHC-P=1:100-500,IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	24kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human DUSP26
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:**

Mitogen-activated protein (MAP) kinases are a large class of proteins involved in signal transduction pathways, which are activated by a range of stimuli and mediate a number of physiological and pathological changes in the cell. Dual specificity phosphatases (DUSPs) are a subclass of the protein tyrosine phosphatase (PTP) gene superfamily, which are selective for dephosphorylating critical phosphothreonine and phosphotyrosine residues within MAP kinases. DUSP 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. DUSP26, also designated LDP4, MKP8, NATA1 and SKRP3, is ubiquitously expressed in brain except in the hippocampus. DUSP26 dephosphorylates p38 thereby inhibiting p38-mediated apoptosis in anaplastic thyroid cancer cells. Downregulation of DUSP26 may also contribute to malignant phenotypes of glioma.

Function:
Inactivates MAPK1 and MAPK3 which leads to dephosphorylation of heat shock factor protein 4 and a reduction in its DNA-binding activity. Inhibits MAP kinase p38 by dephosphorylating it and inhibits p38-mediated apoptosis in anaplastic thyroid cancer cells. Can also induce activation of MAP kinase p38 and c-Jun N-terminal kinase (JNK).

Subcellular Location:
Cytoplasm. Nucleus. Golgi apparatus.

Tissue Specificity:
Brain. In the brain it is expressed ubiquitously except in the hippocampus. Expressed in embryonal cancers (retinoblastoma, neuroepithilioma and neuroblastoma) and in anaplatic thyroid cancer.

Similarity:
Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily.
Contains 1 tyrosine-protein phosphatase domain.

Database links:

Entrez Gene: 78986 Human

Entrez Gene: 426921 Chicken

Entrez Gene: 533896 Cow

Entrez Gene: 66959 Mouse

Entrez Gene: 100173535 Orangutan

Entrez Gene: 306527 Rat

SwissProt: Q17QJ3 Cow

SwissProt: Q9BV47 Human

SwissProt: Q9D700 Mouse

SwissProt: Q5R6H6 Orangutan

SwissProt: Q5FVI9 Rat

Unigene: 8719 Human

Unigene: 23916 Mouse

Unigene: 22231 Rat

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