



SUNLONG

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Rabbit Anti-DUSP26/Cy5 Conjugated antibody

SL14459R-Cy5

Product Name	Anti-DUSP26/Cy5
Chinese Name	Cy5 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) IF=1:100-500
Applications	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.

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).

Product Detail

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, neuroepithelioma and neuroblastoma) and in anaplastic 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.