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DUSP26 Rabbit pAb

Catalog # AP98595

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BV47
Other Accession	Q9BV47
Reactivity	Rat, Orangutan
Predicted	Pig, Gorilla, Human, Mouse, Rabbit, Horse, Opossum
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23946
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DUSP26
Epitope Specificity	111-211/211
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily. Contains 1 tyrosine-protein phosphatase domain.
SUBUNIT	Interacts with HSF4.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	78986
Other Names	DSP-4; DUSP24; LDP-4; LDP4; MKP-8; MKP8; NATA1; NEAP; SKRP3; 2310043K02Rik; CR201_G0005347; RGD1310090; DUS26_BOVIN; DUSP26; 3.1.3.16; 3.1.3.48; DUS26_HUMAN; Dual specificity phosphatase SKRP3; Low-molecular-mass dual-specificity phosphatase 4 (DSP-4 | LDP-4); Mitogen-activated protein kinase phosphatase 8 (MAP kinase phosphatase 8 | MKP-8); Novel amplified gene in thyroid anaplastic cancer; DUS26_MOUSE;

	DUS26_PONAB; DUS26_RAT; dual specificity phosphatase 26; dual specificity phosphatase 26 (putative); neuroendocrine-associated phosphatase
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	DUSP26
Synonyms	DUSP24, LDP4, MKP8, NATA1, SKRP3
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).
Cellular Location	Cytoplasm. Nucleus. Golgi apparatus.
Tissue Location	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.

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