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[Marker Primary Antibody]

Rabbit Anti-DUSP26/Biotin Conjugated antibody

Catalog Number: SL14459R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-DUSP26/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human DUSP26
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Pig,Cow,Horse,Rabbit,Gorilla,Opossum,Marmoset (common), Orangutan)
Background:	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.

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

	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.