

DUSP28 Rabbit pAb

Catalog # AP96590

Product Information

Application	WB
Primary Accession	Q4G0W2
Other Accession	Q4G0W2
Reactivity	Human
Predicted	Rat, Pig, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18324
Physical State	Liquid
Immunogen	Recombinant human DUSP28
Epitope Specificity	71-176/176
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	Monomer.
Post-translational modifications	Myristoylation regulates subcellular location, and is necessary for activation of JNK.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Dual specificity phosphatases (DSPs) are a subclass of the protein tyrosine phosphatase (PTP) gene superfamily, which are selective for dephosphorylating critical phosphothreonine and phosphotyrosine residues within MAP kinases. DSP gene expression is induced by a host of growth factors and/or cellular stresses, thereby negatively regulating MAP kinase superfamily members. DUSP28 is a 176 amino acid protein that belongs to the protein-tyrosine phosphatase family and non-receptor class dual specificity subfamily. Containing one tyrosine-protein phosphatase domain, DUSP28 is encoded by a gene that maps to human chromosome 2, which consists of 237 million bases, encodes over 1,400 genes and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2, including Harlequin ichthyosis, sitosterolemia and Alström syndrome.

Additional Information

Gene ID	285193
Other Names	DUSP26; VHP; DUS28_HUMAN; DUSP28; 3.1.3.16; 3.1.3.48; dual specificity phosphatase 22

Dilution	WB=1:500-2000
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	DUSP28
Function	Has phosphatase activity with the synthetic substrate 6,8-difluoro-4-methylumbelliferyl phosphate (in vitro) (PubMed: 24531476 , PubMed: 29121083). Has almost no detectable activity with phosphotyrosine, even less activity with phosphothreonine and displays complete lack of activity with phosphoserine (PubMed: 29121083). The poor activity with phosphotyrosine may be due to steric hindrance by bulky amino acid sidechains that obstruct access to the active site (PubMed: 29121083).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.