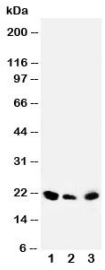
DUSP3 Antibody (R30855)

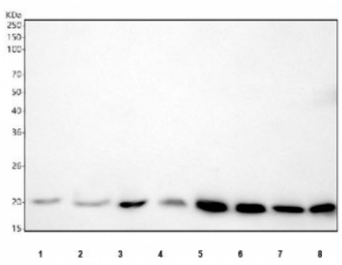
Catalog No.	Formulation	Size
R30855	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P51452
Applications	Western blot: 0.5-1ug/ml
Limitations	This DUSP3 antibody is available for research use only.



Western blot testing of DUSP3 antibody and Lane 1: rat testis; 2: human SKOV; 3: (h) MM453 cell lysate. Predicted molecular weight ~20 kDa.



Western blot testing of 1) human MCF7, 2) human MDA-MB-453, 3) human Caco-2, 4) human HepG2, 5) rat skeletal muscle, 6) rat heart, 7) mouse skeletal muscle and 8) mouse heart tissue lysate with DUSP3 antibody. Predicted molecular weight ~20 kDa.

Description

Dual-specificity phosphatase 3, also called VHR, is a member of the dual specificity protein phosphatase subfamily. DUSPs constitute a large heterogeneous subgroup of the type I cysteine-based protein-tyrosine phosphatase superfamily. DUSPs are characterized by their ability to dephosphorylate both tyrosine and serine/threonine residues. DUSP3 contains the consensus DUSP C-terminal catalytic domain but lacks the N-terminal CH2 domain found in the MKP(mitogen-activated protein kinase phosphatase) class of DUSPs. The DUSP3 gene is mapped on 17q21.31. Confocal microscopy demonstrated that phosphorylated VHR accumulated at the immune synapse between the T cell and the antigen-presenting cell in the presence of antigen. Tyrosine phosphorylation of VHR affects protein-protein interaction, subcellular location, or substrate targeting, given that tyr138 is located on the opposite side of the VHR catalytic center.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the DUSP3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human DUSP3(RQNREIGPNDGFLAQLC) was used as the immunogen for this DUSP3 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the DUSP3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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