

Datasheet for ABIN7318028

Dual Specificity Phosphatase 3 (DUSP3) protein (GST tag,His tag)



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Overview

Quantity:	100 µg
Target:	Dual Specificity Phosphatase 3 (DUSP3)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	GST tag,His tag

Product Details

Purpose:	Recombinant Human DUSP3/VHR Protein (His & GST Tag)
Sequence:	Met 1-Pro 185
Characteristics:	A DNA sequence encoding the human VHR (P51452) (Met 1-Pro 185) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 96 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Dual Specificity Phosphatase 3 (DUSP3)
Alternative Name:	DUSP3/VHR (DUSP3 Products)
Target Type:	Viral Protein
Background:	Background: Vaccinia H1-related phosphatase (VHR) is classified as a dual-specificity

Target Details

phosphatase (DUSP), and the other name is dual-specificity phosphatase 3 (DUSP3). DUSPs are a heterogeneous group of protein phosphatases that can dephosphorylate both phosphotyrosine and phosphoserine/phosphothreonine residues within the one substrate. Unlike typical DUSPs, VHR lacks mitogen-activated protein kinase (MAPK)-binding domain, and shows poor activity against MAPKs. VHR often act on bisphosphorylated protein substrates, it displays a strong preference for dephosphorylating phosphotyrosine residues over phosphothreonine residues. VHR has been identified as a novel regulator of extracellular regulated kinases (ERKs). VHR is responsible for the rapid inactivation of ERK following stimulation and for its repression in quiescent cells. VHR is a negative regulator of the Erk and Jnk pathways in T cells and, therefore, may play a role in aspects of T lymphocyte physiology that depend on these kinases.

Synonym: Dual specificity protein phosphatase 3,DUSP3,Dual specificity protein phosphatase VHR,Vaccinia H1-related phosphatase,VHR

Molecular Weight:	48.3 kDa
UniProt:	P51452
Pathways:	Neurotrophin Signaling Pathway , Activation of Innate immune Response , Toll-Like Receptors Cascades

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 8.0, 2 mM GSH
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.