DUSP6/MKP3 Antibody



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 42	Source/Isotype: Rabbit	UniProt ID: #Q16828	Entrez-Gene Id: 1848	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM soc 20°C. Do not aliquot th		s), 150 mM NaCl, 100 μg	/ml BSA and 50% gl	ycerol. Store at –	
Specificity/Sensitivity		DUSP6/MKP3 Antibody detects endogenous levels of total DUSP6 protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human DUSP6. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		MAP kinases are inactivated by dual-specificity protein phosphatases (DUSPs) that differ in their substrate specificity, tissue distribution, inducibility by extracellular stimuli, and cellular localization. DUSPs, also known as MAPK phosphatases (MKPs), specifically dephosphorylate both threonine and tyrosine residues in MAPK P-loops and have been shown to play important roles in regulating the function of the MAPK family (1,2). At least 13 members of the family (DUSP1-10, DUSP14, DUSP16, and DUSP22) display unique substrate specificities for various MAP kinases (3). MAPK phosphatases typically contain an amino-terminal rhodanese-fold responsible for DUSP docking to MAPK family members and a carboxy-terminal catalytic domain (4). These phosphatases can play important roles in development, immune system function, stress responses, and metabolic homeostasis (5). In addition, research studies have implicated DUSPs in the development of cancer and the response of cancer cells to chemotherapy (6).					
		DUSP6 specifically dephosphorylates ERK MAP kinase (7).					
Background Ref	erences	2. Theodosiou, A. and 3. Salojin, K. and Orav 4. Tanoue, T. et al. (20) 5. Dickinson, R.J. and I 6. Wu, G.S. (2007) <i>Can</i>	1. Camps, M. et al. (2000) <i>FASEB J</i> 14, 6-16. 2. Theodosiou, A. and Ashworth, A. (2002) <i>Genome Biol</i> 3, REVIEWS3009. 3. Salojin, K. and Oravecz, T. (2007) <i>J Leukoc Biol</i> 81, 860-9. 4. Tanoue, T. et al. (2002) <i>J Biol Chem</i> 277, 22942-9. 5. Dickinson, R.J. and Keyse, S.M. (2006) <i>J Cell Sci</i> 119, 4607-15. 6. Wu, G.S. (2007) <i>Cancer Metastasis Rev</i> 26, 579-85. 7. Kim, Y. et al. (2003) <i>Biochemistry</i> 42, 15197-207.				
Species Reactivi	ty	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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