

#4752 Store at -20°C

DUSP3/VHR Antibody


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Orders: 877-616-CELL (2355)
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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 20	Source: Rabbit	UniProt ID: #P51452	Entrez-Gene Id: 1845
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	DUSP3/VHR Antibody detects endogenous levels of total DUSP3 protein. This antibody does not cross-react with other dual-specific phosphatases.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human DUSP3. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	DUSP3, also known as VHR (VH1 related) is a small dual-specific phosphatase with specificity for MAP kinase ERK1/2 and JNK, but not for p38 MAPK (1,2). Unlike most of the dual-specific phosphatases, which have inducible expression patterns, DUSP3 is constitutively expressed (2). In antigen stimulated T cells, DUSP3 is phosphorylated by ZAP-70 at Tyr138 (3). Tyr138 phosphorylation is required for DUSP3 to down-regulate the ERK and JNK pathways (3).	
Background References	1. Todd, J. L. et al. (1999) <i>J. Biol. Chem.</i> 274, 13271-13280. 2. Alonso, A. et al. (2001) <i>J. Biol. Chem.</i> 276, 4766-4771. 3. Alonso, A. et al. (2002) <i>Nat. Immunol.</i> 4, 44-48.	

Species Reactivity	Species reactivity is determined by testing in at least one approved 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	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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