

Rabbit anti-Human DUSP3 Polyclonal Antibody | anti-DUSP3 antibody

Anti-DUSP3 Antibody, Rabbit Polyclonal

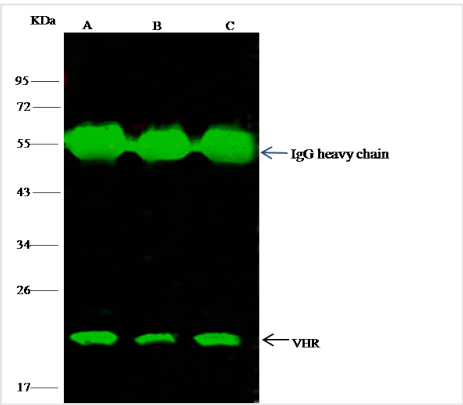
CATALOG # AAA254480	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, ELISA, Western Blot
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PRODUCT SYNONYMS

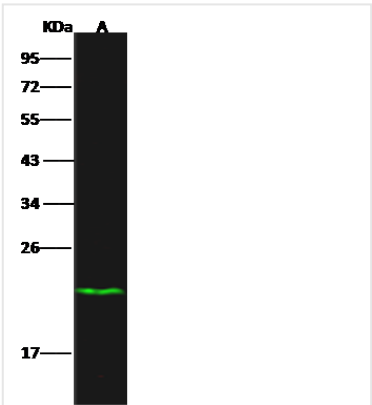
DUSP3; Polyclonal Antibody; Anti-DUSP3 Antibody; Rabbit Polyclonal; DUSP3/VHR Antibody; Rabbit PAb; Antigen Affinity Purified; dual specificity phosphatase 3; Anti-VHR Antibody; anti-DUSP3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human DUSP3/VHR
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-DUSP3 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human DUSP3/VHR Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human DUSP3/VHR (rh DUSP3/VHR). DUSP3/VHR specific IgG was purified by Human DUSP3/VHR affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



IP (Immunoprecipitation)
VHR was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate Lane B: 0.5 mg HeLa Whole Cell Lysate Lane C: 0.5 mg 293T Whole Cell Lysate 1 μ L anti-VHR rabbit polyclonal antibody and 15 μ L of 50 % Protein G agarose. Primary antibody: Anti-VHR rabbit polyclonal antibody, at 1:5000 dilution Secondary antibody: DyLight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 20 kDa Observed band size: 20 kDa



WB (Western Blot)
Anti-VHR rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lysates/proteins at 30 μ g per lane. Secondary Goat Anti- Rabbit IgG H&L (DyLight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 20 kDa Observed band size: 22 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-DUSP3 antibody	Vaccinia H1-related phosphatase (VHR) is classified as a dual-specificity 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.
Product Categories/Family for anti-DUSP3 antibody	Phosphatases and Regulators
References	Todd J.L, et al. (1999) Extracellular regulated kinases (ERK) 1 and ERK2 are authentic substrates for the dual-specificity protein-tyrosine phosphatase VHR. A novel role in down-regulating the ERK pathway. J. Biol. Chem. 274: 13271-80. Alonso A, et al. (2001) Inhibitory role for dual specificity phosphatase VHR in T cell antigen receptor and CD28-induced Erk and Jnk activation. J Biol Chem. 276(7): 4766-71. Schumacher MA, et al. (2002) Structural basis for the recognition of a bisphosphorylated MAP kinase peptide by human VHR protein Phosphatase. Biochemistry. 41(9): 3009-17. Patterson KI, et al. (2009) Dual-specificity phosphatases: critical regulators with diverse cellular targets. Biochem J. 2009 Mar 15;418(3): 475-89.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758208
NCBI GeneID	1845
NCBI Accession #	NP_004081.1
NCBI GenBank Nucleotide #	NM_004090.3
UniProt Accession #	P51452; Q5U0J1; Q8IYJ9; D3DX45
Molecular Weight	16,163 Da
NCBI Official Full Name	dual specificity protein phosphatase 3
NCBI Official Synonym Full Names	dual specificity phosphatase 3

NCBI Official Symbol	DUSP3
NCBI Official Synonym Symbols	VHR
NCBI Protein Information	dual specificity protein phosphatase 3; dual specificity protein phosphatase VHR; serine/threonine specific protein phosphatase; vaccinia H1-related phosphatase; vaccinia virus phosphatase VH1-related
UniProt Protein Name	Dual specificity protein phosphatase 3
UniProt Gene Name	DUSP3
UniProt Synonym Gene Names	VHR; VHR
UniProt Entry Name	DUS3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/dusp3-antibody-immunoprecipitation-western-blot-elisa/254480>