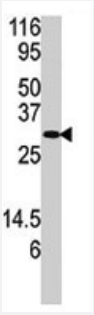
DUSP3 polyclonal antibody

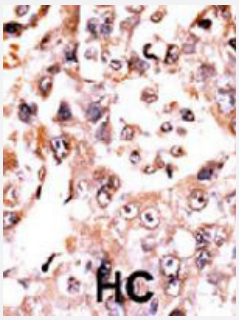
Catalog # PAB4175 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of DUSP3 polyclonal antibody (Cat # PAB4175) in SK-BR-3 cell lysate. DUSP3 (arrow) was detected using the purified polyclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with DUSP3 polyclonal antibody (Cat # PAB4175) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of DUSP3.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human DUSP3.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation

Recommend Usage	ELISA (1:1000) Western Blot (1:100-500) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — DUSP3

Entrez GeneID	1845
Protein Accession#	NP_004081;P51452
Gene Name	DUSP3
Gene Alias	VHR
Gene Description	dual specificity phosphatase 3
Omim ID	600183
Gene Ontology	Hyperlink

Gene Summary	The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene maps in a region that contains the BRCA1 locus which confers susceptibility to breast and ovarian cancer. Although DUSP3 is expressed in both breast and ovarian tissues, mutation screening in breast cancer pedigrees and in sporadic tumors was negative, leading to the conclusion that this gene is not BRCA1. [provided by RefSeq
Other Designations	serine/threonine specific protein phosphatase|vaccinia virus phosphatase VH1-related

Publication Reference

- Tyrosine phosphorylation of VHR phosphatase by ZAP-70.

  Alonso A, Rahmouni S, Williams S, van Stipdonk M, Jaroszewski L, Godzik A, Abraham RT, Schoenberger SP, Mustelin T.

  Nature Immunology 2003 Jan; 4(1):44.

  Application: IF, IP, WB-Ce, WB-Tr, Human, Jurkat, P116, JCaM1, JCaM2 cells

- Inhibitory role for dual specificity phosphatase VHR in T cell antigen receptor and CD28-induced Erk and Jnk activation.

  Alonso A, Saxena M, Williams S, Mustelin T.

  The Journal of Biological Chemistry 2001 Feb; 276(7):4766.

  Application: IP-WB, WB-Ce, WB-Tr, Human, Peripheral blood lymphocytes, Monocytes, Bone marrow, Jurkat T cells

- 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.

  Todd JL, Tanner KG, Denu JM.

  The Journal of Biological Chemistry 1999 May; 274(19):13271.

  Application: Incubated, Recombinant protein

Pathway

- MAPK signaling pathway