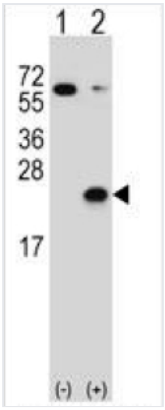
DUSP3 Antibody – Rabbit Polyclonal

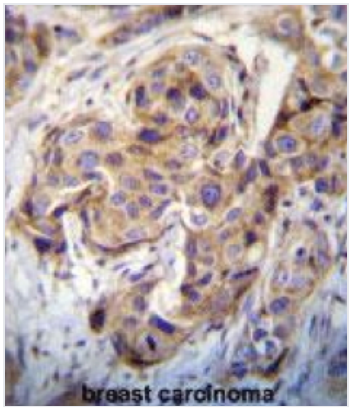
PRODUCT OVERVIEW

Product Name	DUSP3, Polyclonal Antibody
Full Product Name	DUSP3, CT (Dual Specificity Protein Phosphatase 3, Dual Specificity Protein Phosphatase VHR, VHR) (Azide free) (HRP)
Product Gene Name	anti-DUSP3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human DUSP3.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	16,163 Da
OMIM	600183
3D Structure	ModBase 3D Structure for P51452
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 157-185 in the C-terminal region of human DUSP3, UniProt Accession #NP_004081; P51452.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-DUSP3 antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-DUSP3 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-DUSP3 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-DUSP3 antibody	DUSP3 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. The gene for this protein maps in a region that contains the BRCA1 locus which confers susceptibility to breast and ovarian cancer.

Product References and Citations for anti-DUSP3 antibody	1. Alonso, A., et al., Nat. Immunol. 4(1):44-48 (2003). 2. Alonso, A., et al., J. Biol. Chem. 276(7):4766-4771 (2001). 3. Todd, J.L., et al., J. Biol. Chem. 274(19):13271-13280 (1999). 4. Kamb, A., et al., Genomics 23(1):163-167 (1994). 5. Folander, K., et al., Genomics 23(1):295-296 (1994).
Other Notes	Small volumes of anti-DUSP3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DUSP3 purchase	MBS6473115 is an antibody targeting DUSP3. Also known as DUSP3, CT (Dual Specificity Protein Phosphatase 3, Dual Specificity Protein Phosphatase VHR, VHR) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-DUSP3 antibody
Western Blot analysis in 293 cell lysates (2 ug/lane) using MBS631177 either nontransfected (Lane 1) or transiently transfected (Lane 2) with the DUSP3 gene.



Immunohistochemistry (IHC) of anti-DUSP3 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma using MBS631177 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS631177 for immunohistochemistry.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DUSP3. It may not necessarily be applicable to this product.

NCBI GI #	4758208
NCBI GeneID	1845
NCBI Accession #	NP_004081
UniProt Primary Accession #	P51452
UniProt Secondary Accession #	Q5U0J1; Q8IYJ9; D3DX45
UniProt Related Accession #	P51452
GenBank Nucleotide #	NM_004090.3
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
UniProt Protein Name	Dual specificity protein phosphatase 3
UniProt Synonym Protein Names	Dual specificity protein phosphatase VHR; Vaccinia H1-related phosphatase; VHR
Protein Family	Dual specificity protein phosphatase
UniProt Gene Name	DUSP3
UniProt Synonym Gene Names	VHR; VHR
UniProt Entry Name	DUS3_HUMAN

NCBI Protein Information	dual specificity protein phosphatase 3
NCBI Summary for DUSP3	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, Jul 2008]
UniProt Comments for DUSP3	DUSP3: a non-receptor, dual-specificity phosphoprotein phosphatase (DUSP). Different members of the DUSP family show distinct substrate specificities for MAPKs, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. DUSP3 inactivates the mitogen-activated kinases Erk2 and Jnk and is phosphorylated by ZAP-70. Phosphorylation by ZAP-70 is required for DUSP3 to inhibit the Erk2-Elk-1 pathway. Protein type: EC 3.1.3.48; Motility/polarity/chemotaxis; Protein phosphatase, dual-specificity; EC 3.1.3.16 Chromosomal Location of Human Ortholog: 17q21 Cellular Component: nucleoplasm; cytoplasm; immunological synapse; cytosol; nucleus Molecular Function: MAP kinase phosphatase activity; protein tyrosine/serine/threonine phosphatase activity; protein tyrosine phosphatase activity Biological Process: negative regulation of JNK cascade; nerve growth factor receptor signaling pathway; in utero embryonic development; negative regulation of MAPKKK cascade; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; negative regulation of T cell receptor signaling pathway; toll-like receptor 3 signaling pathway; positive regulation of mitotic cell cycle; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor 5 signaling pathway; toll-like receptor signaling pathway; innate immune response; toll-like receptor 9 signaling pathway; toll-like receptor 4 signaling pathway; negative regulation of T cell activation; inactivation of MAPK activity
Research Articles on DUSP3	**1.** Data indicated that regulating non-receptor tyrosine kinase FAK and cell migration is a newly revealed function of VHR/DUSP3.
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