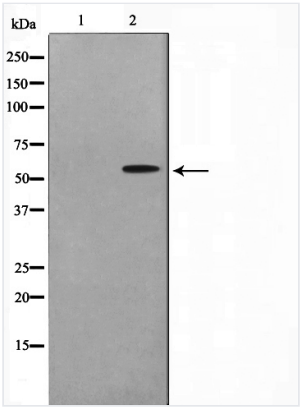
DOK3 Antibody – Rabbit Polyclonal

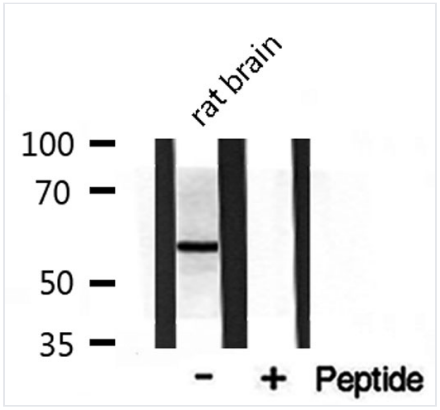
PRODUCT OVERVIEW

Product Name	DOK3, Polyclonal Antibody
Full Product Name	DOK3 Antibody
Product Gene Name	anti-DOK3 antibody
Product Synonym Names	Docking protein 3; DOK 3; DOK Like Protein; Dok3; DOK3_HUMAN; DOKL Pending; Downstream of tyrosine kinase 3; p62 DOK Like Protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	DOK3 antibody detects endogenous levels of DOK3
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	DOK3 peptide (MBS9615002) is used for blocking the activity of DOK3 antibody (MBS9600449)
Molecular Weight	Observed: 58 kDa Predicted: 54 kDa
3D Structure	ModBase 3D Structure for Q7L591
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human DOK3
Subcellular Location	Cytoplasm. Cell Membrane.
Tissue Specificity	Expressed in spleen.
Predicted Cross Reactivity	**Pig, Rabbit, Dog**
Similarity	Pig (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DOK3 antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-DOK3 antibody	WB: 1:500-1:2000 IF/ICC: 1:100-1:500

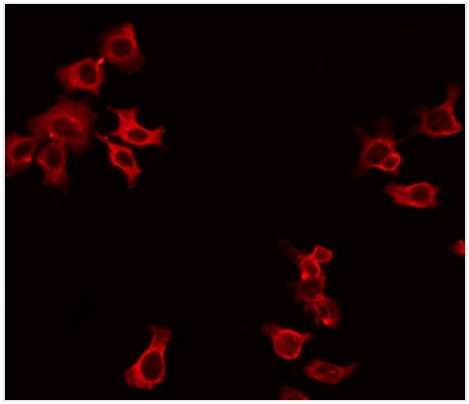
Related Product Information for anti-DOK3 antibody	Description: Docking proteins interact with receptor tyrosine kinases and mediate particular biological responses. DOK3 is a negative regulator of JNK signaling in B-cells through interaction with INPP5D/SHIP. May modulate Abl function. On tyrosine phosphorylation, interacts with CSK and INPP5D/SHIP via their SH2 domains. Both Tyr-381 and Tyr-398 are required for interaction with INPP5D. Only Tyr-381 is required for interaction with CSK. Binds ABL through the PTB domain and in a kinase-dependent manner. Does not interact with RasGAP. 4 isoforms of the human protein are produced by alternative splicing. Function: DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK3 is a negative regulator of JNK signaling in B-cells through interaction with INPP5D/SHIP1. May modulate ABL1 function (By similarity). Subunit Structure: On tyrosine phosphorylation, interacts with CSK and INPP5D/SHIP1 via their SH2 domains. Both Tyr-381 and Tyr-398 are required for interaction with INPP5D. Only Tyr-381 is required for interaction with CSK. Binds ABL1 through the PTB domain and in a kinase-dependent manner. Does not interact with RasGAP (By similarity). Post-translational Modifications: Constitutively tyrosine-phosphorylated.On IL2 stimulation, phosphorylated on C-terminal tyrosine residues possibly by Src kinases. Can also be phosphorylated by ABL1 kinase (By similarity). Similarity: PTB domain mediates receptor interaction. Belongs to the DOK family. Type A subfamily.
Other Notes	Small volumes of anti-DOK3 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 DOK3 purchase	MBS9600449 is an antibody targeting DOK3. Also known as DOK3 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-DOK3 antibody
Western blot analysis on HepG2 cell lysate using DOK3 Antibody, The lane on the left is treated with the antigen-specific peptide.



Western Blot (WB) of anti-DOK3 antibody
Western blot analysis on rat brain lysate using DOK3 Antibody



Immunofluorescence (IF) of anti-DOK3 antibody
MBS9600449 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DOK3. It may not necessarily be applicable to this product.

NCBI GI #	221554539
NCBI GeneID	79930
NCBI Accession #	NP_001138347.1
UniProt Primary Accession #	Q7L591
UniProt Secondary Accession #	Q8N864; Q9BQB3; Q9H666; E9PAT0; H7BXS0
UniProt Related Accession #	Q7L591
GenBank Nucleotide #	NM_001144875.1
NCBI Official Full Name	docking protein 3 isoform 2
NCBI Official Synonym Full Names	docking protein 3
NCBI Official Symbol	DOK3
NCBI Official Synonym Symbols	DOKL
UniProt Protein Name	Docking protein 3
UniProt Synonym Protein Names	Downstream of tyrosine kinase 3
Protein Family	Docking protein
UniProt Gene Name	DOK3
NCBI Protein Information	docking protein 3
UniProt Comments for DOK3	DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK3 is a negative regulator of JNK signaling in B-cells through interaction with INPP5D/SHIP1. May modulate ABL1 function ().
Research Articles on DOK3	**1.** Mutations in DOK3 gene is associated with prostate cancer
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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