

Rabbit DOK4 Polyclonal Antibody | anti-DOK4 antibody

DOK4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325838	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

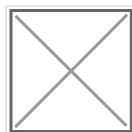
PRODUCT SYNONYMS

DOK4; Polyclonal Antibody; DOK4 Antibody; docking protein 4; Downstream of tyrosine kinase 4; FLJ10488; insulin receptor substrate 5; IRS5; anti-DOK4 antibody

PRODUCT SPECIFICATIONS

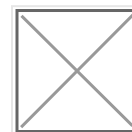
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	DOK4 antibody detects endogenous levels of total DOK4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	326
Applicable Applications for anti-DOK4 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human DOK4
Tissue Specificity	Widely expressed. High expression in skeletal muscle, heart, kidney and liver. Weaker expression in spleen, lung and small intestine, brain, heart and. Expressed in both resting and activated peripheral blood T-cells.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA325838 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA325838 staining 293 cells 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) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts of MCF7, using DOK4 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-DOK4 antibody	Description: The downstream of kinase family (Dok-1-7) are members of a class of docking proteins that interact with receptor tyrosine kinases and, via this interaction, mediate biological responses within the body. Dok-4 (Downstream of kinase-4) is a 326 amino acid protein that contains one PH domain and one IRS-type PTB domain and belongs to the Dok family of interacting proteins. Expressed in a variety of tissues with highest expression in liver, heart, kidney and skeletal muscle, Dok-4 plays an important role in Ret-mediated neurite outgrowth and may link Ret with downstream effectors during neuronal differentiation. Additionally, Dok-4 is thought to play a positive role in the activation of MAPK pathways and may participate in T-cell induced immune system regulation. Overexpression of Dok-4 is associated with clear cell renal cell carcinoma, suggesting a role for Dok-4 in tumorigenesis. Function: DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK4 functions in RET-mediated neurite outgrowth and plays a positive role in activation of the MAP kinase pathway (By similarity). Putative link with downstream effectors of RET in neuronal differentiation. May be involved in the regulation of the immune response induced by T-cells. Subunit Structure: Interacts with RET and TEK/TIE2. Interaction with RET is mediated through the PTB domain and requires phosphorylation of RET 'Tyr-1062' (By similarity). Post-translational Modifications: Phosphorylated on tyrosine residues in response to insulin, IGF1 or RET stimulation. Similarity: PTB domain mediates receptor interaction. Belongs to the DOK family. Type B subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20070302
NCBI GeneID	55715
NCBI Accession #	NP_060580.2
NCBI GenBank Nucleotide #	NM_018110.3
UniProt Accession #	Q8TEW6; O75209; Q9BTP2; Q9NVV3
Molecular Weight	Observed: 37 kDa Predicted: 38 kDa
NCBI Official Full Name	docking protein 4 isoform 1
NCBI Official Synonym Full Names	docking protein 4
NCBI Official Symbol	DOK4
NCBI Official Synonym Symbols	IRS5; IRS-5
NCBI Protein Information	docking protein 4
UniProt Protein Name	Docking protein 4
UniProt Gene Name	DOK4
UniProt Synonym Gene Names	IRS-5; IRS5

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.