

Rabbit anti-Human, Mouse DOK7 Polyclonal Antibody | anti-DOK7 antibody

DOK7 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324004	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

DOK7; Polyclonal Antibody; DOK7 Antibody; Docking protein 7; DOK 7; DOK7_HUMAN; Downstream of tyrosine kinase 7; Protein Dok-7; anti-DOK7 antibody

PRODUCT SPECIFICATIONS

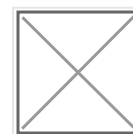
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	DOK7 antibody detects endogenous levels of total DOK7
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	255
Applicable Applications for anti-DOK7 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cell Membrane. Cell Junction > Synapse. Accumulates at neuromuscular junctions.
Tissue Specificity	Preferentially expressed in skeletal muscle and heart. Present in thigh muscle, diaphragm and heart but not in the liver or spleen (at protein level).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA324004 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.



WB (Western Blot)

Western blot analysis of extracts from mouse brain cells, using DOK7 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA324004 at 1/100 staining Human liver 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.

ADDITIONAL INFORMATION

Related Product Information for anti-DOK7 antibody	Function: Probable muscle-intrinsic activator of MUSK that plays an essential role in neuromuscular synaptogenesis. Acts in aneural activation of MUSK and subsequent acetylcholine receptor (AChR) clustering in myotubes. Induces autophosphorylation of MUSK. Subunit Structure: Homodimer (By similarity). Forms a heterotetramer composed of 2 DOK7 and 2 MUSK molecules which facilitates MUSK trans-autophosphorylation on tyrosine residue and activation (By similarity). Interacts (via IRS-type PTB domain) with MUSK (via cytoplasmic part); requires MUSK phosphorylation. Similarity: The PH domain mediated binding to phospholipids with phosphoinositol headgroups. Affinity is highest for phosphatidyl 3, 4, 5-trisphosphate, followed by phosphatidylinositol 3, 4-bisphosphate and phosphatidylinositol 4, 5-bisphosphate (By similarity).
References	Wu D, Huang CJ, Jiao XF, Ding ZM, Zhang JY, Chen F, Wang YS, Li X, Huo LJ; Journal: Oncotarget. Olaquinox disrupts tight junction integrity and cytoskeleton architecture in mouse Sertoli cells.

NCBI AND UNIPROT INFORMATION

NCBI GI #	257467680
NCBI GeneID	285489
NCBI Accession #	NP_001158145.1
NCBI GenBank Nucleotide #	NM_001164673.1
UniProt Accession #	Q18PE1 ; Q6P6A6 ; Q86XG5 ; Q8N2J3 ; Q8NBC1 ; A2A499 ; A2RRD4 ; E9PB56
Molecular Weight	Observed: 60 kD Predicted: 54 kDa
NCBI Official Full Name	protein Dok-7 isoform 2
NCBI Official Synonym Full Names	docking protein 7
NCBI Official Symbol	DOK7
NCBI Official Synonym Symbols	CMS10; CMS1B; C4orf25
NCBI Protein Information	protein Dok-7
UniProt Protein Name	Protein Dok-7
UniProt Gene Name	DOK7
UniProt Synonym Gene Names	C4orf25

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.