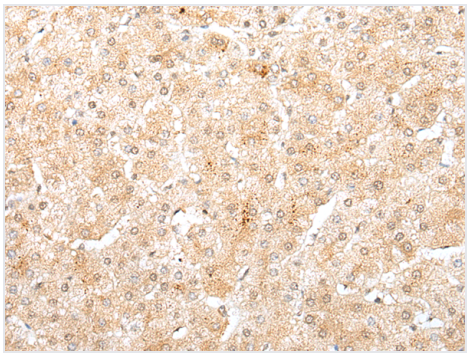
DOK7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DOK7, Polyclonal Antibody
Full Product Name	DOK7 Polyclonal Antibody
Product Gene Name	anti-DOK7 antibody
Product Synonym Names	Docking protein 7; DOK 7; DOK7; DOK7; Downstream of tyrosine kinase 7; Protein Dok-7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.05% NaN3 and 40% Glycerol, pH7.4
Purity/Purification	Antigen Affinity Purification
Concentration	0.7mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
OMIM	254300
3D Structure	ModBase 3D Structure for Q18PE1
Immunogen	Synthetic peptide of human DOK7
Conjugation	Unconjugated
Product Categories/Family for anti-DOK7 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DOK7 antibody	Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-DOK7 antibody	IHC: 1:25-1:100 ELISA: 1:5000-1:10000
Related Product Information for anti-DOK7 antibody	The protein encoded by this gene is essential for neuromuscular synaptogenesis. The protein functions in aneural activation of muscle-specific receptor kinase, which is required for postsynaptic differentiation, and in the subsequent clustering of the acetylcholine receptor in myotubes. This protein can also induce autophosphorylation of muscle-specific receptor kinase. Mutations in this gene are a cause of familial limb-girdle myasthenia autosomal recessive, which is also known as congenital myasthenic syndrome type 1B. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-DOK7 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 DOK7 purchase	MBS2561333 is an antibody targeting DOK7. Also known as DOK7 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Immunohistochemistry (IHC) of anti-DOK7 antibody
Immunohistochemistry of paraffin-embedded Human liver cancer tissue using DOK7 Polyclonal Antibody at dilution of 1:35(×200)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DOK7. It may not necessarily be applicable to this product.

NCBI GI #	257467680
NCBI GeneID	285489
NCBI Accession #	NP_001158145.1
UniProt Primary Accession #	Q18PE1
UniProt Related Accession #	Q18PE1
GenBank Nucleotide #	NP_001158145.1
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; FADS3; C4orf25
UniProt Protein Name	Protein Dok-7
UniProt Synonym Protein Names	Downstream of tyrosine kinase 7
Protein Family	Protein
UniProt Gene Name	DOK7
UniProt Synonym Gene Names	C4orf25
UniProt Entry Name	DOK7_HUMAN
NCBI Protein Information	protein Dok-7
NCBI Summary for DOK7	The protein encoded by this gene is essential for neuromuscular synaptogenesis. The protein functions in aneural activation of muscle-specific receptor kinase, which is required for postsynaptic differentiation, and in the subsequent clustering of the acetylcholine receptor in myotubes. This protein can also induce autophosphorylation of muscle-specific receptor kinase. Mutations in this gene are a cause of familial limb-girdle myasthenia autosomal recessive, which is also known as congenital myasthenic syndrome type 1B. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]

UniProt Comments for DOK7	DOK7: docking proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. 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. Interacts with the cytoplasmic part of MUSK. Defects in DOK7 are the cause of congenital myasthenic syndrome type 1B or CMS1B. Three isoforms of the human protein are produced by alternative splicing. Protein type: Activator; Adaptor/scaffold Chromosomal Location of Human Ortholog: 4p16.3 Cellular Component: plasma membrane; cell junction; neuromuscular junction Molecular Function: protein kinase binding; phosphoinositide binding; insulin receptor binding Biological Process: receptor clustering; neuromuscular junction development Disease: Myasthenia, Limb-girdle, Familial; Fetal Akinesia Deformation Sequence
Research Articles on DOK7	**1.** this study shows hypermethylation of DOK7 gene in DNA from patients affected with breast cancer
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