P62 Dok Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	p62 Dok (DOK1), Blocking Peptide
Full Product Name	p62 Dok Blocking Peptide
Product Gene Name	DOK1 blocking peptide
Product Synonym Names	Docking protein 1 62kD; Docking protein 1; DOK 1; DOK1; DOK1_HUMAN; Downstream of tyrosine kinase 1; p62(dok); P62DOK; pp62
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	p62 Dok peptide (MBS9617583) is used for blocking the activity of p62 Dok antibody (MBS9602024)
Molecular Weight	52,392 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (74776147..74784678). Location: 2p13
OMIM	602919
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.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for DOK1 blocking peptide	Blocking/Control
Related Product Information for DOK1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of DOK1 blocking peptide 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 DOK1 purchase	MBS9617583 is a blocking peptide targeting DOK1. Also known as p62 Dok Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DOK1. It may not necessarily be applicable to this product.

NCBI GI #	308737010
NCBI GeneID	1796
NCBI Accession #	NP_001184189.1
UniProt Primary Accession #	Q99704
UniProt Secondary Accession #	O43204; Q53TY2; Q9UHG6

UniProt Related Accession #	Q99704
GenBank Nucleotide #	NM_001197260.1
NCBI Official Full Name	docking protein 1 isoform 2
NCBI Official Synonym Full Names	docking protein 1, 62kDa (downstream of tyrosine kinase 1)
NCBI Official Symbol	DOK1
NCBI Official Synonym Symbols	P62DOK
UniProt Protein Name	Docking protein 1
UniProt Synonym Protein Names	Downstream of tyrosine kinase 1; p62(dok); pp62
Protein Family	Docking protein
UniProt Gene Name	DOK1
UniProt Entry Name	DOK1_HUMAN
NCBI Protein Information	docking protein 1; pp62; p62(dok); Downstream of tyrosine kinase 1; docking protein 1 (downstream of tyrosine kinase 1)
NCBI Summary for DOK1	The protein encoded by this gene is part of a signal transduction pathway downstream of receptor tyrosine kinases. The encoded protein is a scaffold protein that helps form a platform for the assembly of multiprotein signaling complexes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2010]
UniProt Comments for DOK1	DOK1: a docking protein that interacts with receptor tyrosine kinases. It is constitutively tyrosine phosphorylated in hematopoietic progenitors isolated from chronic myelogenous leukemia (CML) patients in the chronic phase. It may be a critical substrate for p210(bcr/abl), a chimeric protein whose presence is associated with CML. Docking protein 1 contains a putative pleckstrin homology domain at the amino terminus and ten PXXP SH3 recognition motifs. Docking protein 2 binds p120 (RasGAP) from CML cells. It has been postulated to play a role in mitogenic signaling. Protein type: Adaptor/scaffold; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 2p13 Cellular Component: perinuclear region of cytoplasm; cytoplasm; nucleus; cytosol Molecular Function: protein binding; receptor signaling protein activity; insulin receptor binding Biological Process: cell surface receptor linked signal transduction; Ras protein signal transduction; insulin receptor signaling pathway; signal transduction; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on DOK1	**1.** DNA methylation of the DOK1 core promoter region found in head and neck cancer cell lines hampered the recruitment of E2F1 to the DOK1 promoter and compromised DOK1 expression.
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