DOK2 (Py299) Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	DOK2 (pY299), Blocking Peptide
Full Product Name	DOK2 (pY299) Blocking Peptide
Product Gene Name	DOK2 blocking peptide
Product Synonym Names	Docking protein 2; Downstream of tyrosine kinase 2; p56(dok-2)
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	DOK2 (pY299) peptide (MBS822741) is used for blocking the activity of DOK2 (pY299) antibody (MBS820311)
Molecular Weight	45,379 Da
OMIM	604997
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for DOK2 blocking peptide	Blocking (BL)
Application Notes for DOK2 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for DOK2 blocking peptide	MBS822741 is a blocking peptide targeting DOK2. Also known as DOK2 (pY299) Blocking Peptide. Reactive in Human. Host: Synthetic. The peptide is used to block Anti-DOK2 (pY299) Antibody reactivity.
Other Notes	Small volumes of DOK2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DOK2. It may not necessarily be applicable to this product.

NCBI GI #	41406050
NCBI GeneID	9046
NCBI Accession #	NP_003965.2
UniProt Primary Accession #	O60496
UniProt Secondary Accession #	Q8N5A4
UniProt Related Accession #	O60496
GenBank Nucleotide #	NM_003974.2
NCBI Official Full Name	docking protein 2
NCBI Official Synonym Full Names	docking protein 2, 56kDa

NCBI Official Symbol	DOK2
NCBI Official Synonym Symbols	p56DOK; p56dok-2
UniProt Protein Name	Docking protein 2
UniProt Synonym Protein Names	Downstream of tyrosine kinase 2; p56(dok-2)
Protein Family	Docking protein
UniProt Gene Name	DOK2
UniProt Entry Name	DOK2_HUMAN
NCBI Protein Information	docking protein 2; p56(dok-2); docking protein 2, 56kD; downstream of tyrosine kinase 2
NCBI Summary for DOK2	The protein encoded by this gene 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. This encoded protein binds p120 (RasGAP) from CML cells. [provided by RefSeq, Jul 2008]
UniProt Comments for DOK2	DOK2: a member of the p62dok family of proteins that interact with receptor tyrosine kinases and mediate particular biological responses. 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. Contains a pleckstrin homology domain at the amino terminus, 13 potential tyrosine phosphorylation sites, and six PXXP SH3 recognition motifs. Binds p120 (RasGAP) from CML cells. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 8p21.3 Cellular Component: cytosol Molecular Function: receptor signaling protein activity; transmembrane receptor protein tyrosine kinase adaptor protein activity; insulin receptor binding Biological Process: cell surface receptor linked signal transduction; Ras protein signal transduction; signal transduction; blood coagulation; leukocyte migration; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on DOK2	**1.** Taken together, these results reveal that Dok1 and Dok2 proteins are involved in an intrinsic negative feedback loop downstream of natural killer-cell-activating receptors in mouse and human.
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