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

PRODUCT OVERVIEW

Product Name	CRKL, Blocking Peptide
Full Product Name	CRKL Blocking Peptide
Product Gene Name	CRKL blocking peptide
Product Synonym Names	Crk L; Crk like protein; Crk-like protein; Crkl; CRKL_HUMAN; Crkol; HGNC:2363; Oncogene CrkL; V crk avian sarcoma virus CT10 oncogene homolog like; v crk sarcoma virus CT10 oncogene homolog (avian) like; V crk sarcoma virus CT10 oncogene homolog avian like
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.
Molecular Weight	33,777 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (21271714..21308037). Location: 22q11.21
OMIM	602007
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 CRKL blocking peptide	Blocking/Control
Related Product Information for CRKL 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 CRKL 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 CRKL purchase	MBS9619820 is a blocking peptide targeting CRKL.

ADDITIONAL DETAILS

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

NCBI GI #	4885153
NCBI GeneID	1399
NCBI Accession #	NP_005198.1
UniProt Primary Accession #	P46109
UniProt Secondary Accession #	A8KA44; D3DX35

UniProt Related Accession #	P46109
GenBank Nucleotide #	NM_005207.3
NCBI Official Full Name	crk-like protein
NCBI Official Synonym Full Names	v-crk sarcoma virus CT10 oncogene homolog (avian)-like
NCBI Official Symbol	CRKL
UniProt Protein Name	Crk-like protein
Protein Family	Crk-like protein
UniProt Gene Name	CRKL
UniProt Entry Name	CRKL_HUMAN
NCBI Protein Information	crk-like protein
NCBI Summary for CRKL	This gene encodes a protein kinase containing SH2 and SH3 (src homology) domains which has been shown to activate the RAS and JUN kinase signaling pathways and transform fibroblasts in a RAS-dependent fashion. It is a substrate of the BCR-ABL tyrosine kinase, plays a role in fibroblast transformation by BCR-ABL, and may be oncogenic.[provided by RefSeq, Jan 2009]
UniProt Comments for CRKL	CRKL: an oncogenic adaptor protein with an SH2-SH3-SH3 domain structure. Plays a specific role in integrin-induced migration as a downstream mediator of Src. Activates the RAS and Jnk signaling pathways. Transforms fibroblasts in a RAS-dependent fashion. A substrate of BCR-ABL and plays a role in fibroblast transformation by BCR-ABL. Protein type: Adaptor/scaffold; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 22q11.21 Cellular Component: cytosol; endosome Molecular Function: protein binding; signal transducer activity; SH3/SH2 adaptor activity Biological Process: anterior/posterior pattern formation; blood vessel development; organ morphogenesis; nerve growth factor receptor signaling pathway; activation of MAPKK activity; thymus development; heart development; Ras protein signal transduction; JNK cascade; parathyroid gland development
Research Articles on CRKL	**1.** study reveals a significant association between Crk protein expression with highly proliferative tumors and basal breast cancers of poor outcome; data highlight the physiological importance of Crk proteins in regulating growth of aggressive basal breast cancer cells
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