Xk Blocking Peptide

PRODUCT OVERVIEW

Product Name	XK, Blocking Peptide
Full Product Name	XK Blocking Peptide
Product Gene Name	XK blocking peptide
Product Synonym Names	Kell complex 37 kDa component; Kx antigen; Membrane transport protein XK; XK; XK related protein 1; XK-related protein 1; XK_HUMAN; XKR1; XRG1
Antibody/Peptide Pairs	XK peptide (MBS9633348) is used for blocking the activity of XK antibody (MBS9630965)
Molecular Weight	50,902 Da
OMIM	phenotype 314850
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.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for XK blocking peptide	MBS9633348 is a blocking peptide targeting XK.
Other Notes	Small volumes of XK 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 XK. It may not necessarily be applicable to this product.

NCBI GI #	10835267
NCBI GeneID	7504
NCBI Accession #	NP_066569.1
UniProt Primary Accession #	P51811
UniProt Secondary Accession #	Q4TTN6; Q8IUK6; Q9UC77
UniProt Related Accession #	P51811
GenBank Nucleotide #	NM_021083.2
NCBI Official Full Name	membrane transport protein XK
NCBI Official Synonym Full Names	X-linked Kx blood group
NCBI Official Symbol	XK
NCBI Official Synonym Symbols	KX; NA; NAC; X1k; XKR1; MCLDS
UniProt Protein Name	Membrane transport protein XK
UniProt Synonym Protein Names	Kell complex 37 kDa component; Kx antigen; XK-related protein 1
Protein Family	Membrane transport protein
UniProt Gene Name	XK

UniProt Synonym Gene Names	XKR1; XRG1
UniProt Entry Name	XK_HUMAN
NCBI Protein Information	membrane transport protein XK; Kx antigen; neurocanthocytosis; neuroacanthocytosis; XK-related protein 1; kell complex 37 kDa component; Kell blood group precursor (McLeod phenotype); XK, Kell blood group complex subunit (McLeod syndrome)
NCBI Summary for XK	This locus controls the synthesis of the Kell blood group 'precursor substance' (Kx). Mutations in this gene have been associated with McLeod syndrome, an X-linked, recessive disorder characterized by abnormalities in the neuromuscular and hematopoietic systems. The encoded protein has structural characteristics of prokaryotic and eukaryotic membrane transport proteins. [provided by RefSeq, Jul 2008]
UniProt Comments for XK	XK: May be involved in sodium-dependent transport of neutral amino acids or oligopeptides. Defects in XK are the cause of McLeod syndrome (MLS). It is an X-linked multisystem disorder characterized by late onset abnormalities in the neuromuscular and hematopoietic systems. Belongs to the XK family. Protein type: Cell surface; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: Xp21.1 Cellular Component: integral to membrane Molecular Function: protein binding; transporter activity Biological Process: myelination; cellular calcium ion homeostasis; transport; amino acid transport; regulation of axon diameter; skeletal muscle fiber development; regulation of cell size Disease: Mcleod Syndrome
Research Articles on XK	**1.** Novel XK protein mutations are reported in two patients who exhibit typical clinical characteristics of McLeod syndrome.
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