Xk Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	XK, Blocking Peptide
Full Product Name	XK Antibody (N-term) Blocking Peptide
Product Gene Name	XK blocking peptide
Product Synonym Gene Name	XKR1; XRG1
Product Synonym Names	Membrane transport protein XK; Kell complex 37 kDa component; Kx antigen; XK-related protein 1; XK; XKR1; XRG1
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 1 mg/ml.
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	XK peptide (MBS9224080) is used for blocking the activity of XK antibody (MBS9212173)
Molecular Weight	50,902 Da
OMIM	300842
Cellular Location	Membrane; Multi-pass membrane protein
Tissue Location	High levels in skeletal muscle, heart, brain, and pancreas; low levels in placenta, lung, liver, and kidney
Related Product Information for XK blocking peptide	May be involved in sodium-dependent transport of neutral amino acids or oligopeptides.
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.
Searchable Terms for XK purchase	MBS9224080 is a blocking peptide targeting XK. Also known as XK Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	85700269
NCBI GeneID	7504
NCBI Accession #	P51811.5
UniProt Primary Accession #	P51811
UniProt Secondary Accession #	Q4TTN6; Q8IUK6; Q9UC77
UniProt Related Accession #	P51811
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
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
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: Membrane protein, multi-pass; Cell surface; Membrane protein, integral Chromosomal Location of Human Ortholog: Xp21.1 Cellular Component: integral to membrane; plasma membrane Molecular Function: protein binding; transporter activity Biological Process: transport Disease: Mcleod Syndrome
Research Articles on XK	**1.** the expression of KX is critical to normal morphology, and null mutations are associated with the McLeod neuroacanthocytosis syndrome.
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