Anthrax Toxin Receptor 1 (ANTXR1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Anthrax toxin receptor 1 (Antxr1), Recombinant Protein
Full Product Name	Recombinant Rat Anthrax toxin receptor 1 (Antxr1), partial
Product Gene Name	Antxr1 recombinant protein
Product Synonym Gene Name	Antxr1
Sequence	QGGRR EDGGPACYGG FDLYFILDKS GSVLHHWNEI YYFVEQLAHR FISPQLRMSF IVFSTRGTTL MKLTEDREQI RQGLEELQKV LPGGDTYMHE GFERASEQIY YENSQGYRTA SVIIALTDGE LHEDLFFYSE REANRSRDLG AIVYCVGVKD FNETQLARIA DSKDHVFPVN DGFQALQGII HSILKKSCIE ILAAEPSTIC AGESFQVVVR GNGFRHARNV DRVLCSFKIN DSVTLNEKPF AVEDTYLLCP APILKEVGMK AALQVSMNDG LSFISSSVII TTTHCSDGS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	62,319 Da
Sequence Positions	26-319
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q0PMD2
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Antxr1 recombinant protein	This gene encodes a type I transmembrane protein and is a tumor-specific endothelial marker that has been implicated in colorectal cancer. The encoded protein has been shown to also be a docking protein or receptor for Bacillus anthracis toxin, the causative agent of the disease, anthrax. The binding of the protective antigen (PA) component, of the tripartite anthrax toxin, to this receptor protein mediates delivery of toxin components to the cytosol of cells. Once inside the cell, the other two components of anthrax toxin, edema factor (EF) and lethal factor (LF) disrupt normal cellular processes. Three alternatively spliced variants that encode different protein isoforms have been described.
Other Notes	Small volumes of Antxr1 recombinant protein 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 Antxr1 purchase	MBS1344709 is a recombinant protein targeting Antxr1. Also known as Recombinant Rat Anthrax toxin receptor 1 (Antxr1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Antxr1. It may not necessarily be applicable to this product.

NCBI GI #	113205504
NCBI GeneID	362393
NCBI Accession #	NP_001037714.1
UniProt Primary Accession #	Q0PMD2
UniProt Related Accession #	Q0PMD2
GenBank Nucleotide #	NM_001044249.2
NCBI Official Full Name	anthrax toxin receptor 1
NCBI Official Synonym Full Names	anthrax toxin receptor 1
NCBI Official Symbol	Antxr1
UniProt Protein Name	Anthrax toxin receptor 1
Protein Family	Anthrax toxin receptor
UniProt Gene Name	Antxr1
NCBI Protein Information	anthrax toxin receptor 1
UniProt Comments for Antxr1	Plays a role in cell attachment and migration. Interacts with extracellular matrix proteins and with the actin cytoskeleton. Mediates adhesion of cells to type 1 collagen and gelatin, reorganization of the actin cytoskeleton and promotes cell spreading. Plays a role in the angiogenic response of cultured umbilical vein endothelial cells ().
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