Active Recombinant Mouse Anthrax Toxin Receptor 2, His-tagged

Cat. No. Antxr2-558M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Antxr2protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag.Gly26-Gly318.
Species	Mouse
Source	Mammalian Cells
ProteinLength	26-318 a.a.
Description	Antxr2 is a widely expressedanthrax toxin receptor (ATR) family protein. Antxr2 is a ~55 kDa protein thatcontains a 31 amino acid (aa) signal sequence, a 287 aa extracellular domain(ECD), a 21 aa transmembrane sequence, and a 148 aa cytoplasmic domain. Unlikehuman Antxr2 which has four isoforms, only one sequence has been reported formouse Antxr2. The main functional domain of Antxr2 is an extracellularintegrinlike von Willebrand factor type A (VWA) domain with a metal ion dependentadhesion site (MIDAS), through which it adheres selectively to collagen typeIV and laminin.
Form	Lyophilized from a0.2 μm filtered solution in PBS with BSA as a carrier protein.
N-terminalSequence	Gly26
Molecular Weight	32 kDa

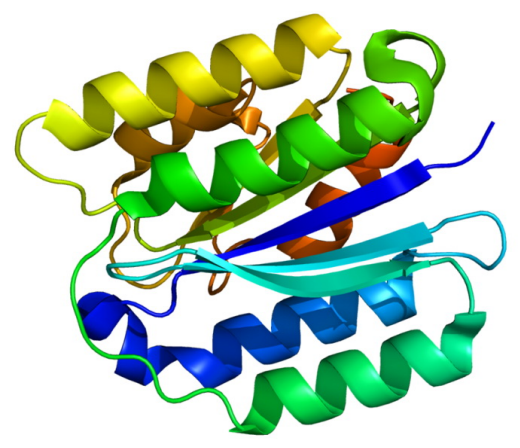
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Activity	Measured by itsability to bind anthrax protective antigen (PA) in a functional ELISA. ImmobilizedPA at 1.5 μg/mL (100 μL/well) can bind rmCMG2 with a linear range of 0.08-5.0μg/mL.
Endotoxin Level	< 1.0EU per 1 μg of the protein by the LAL method.
SDS-PAGE	32-35kDa, reducing conditions.
Purity	> 95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100μg/mL in sterile PBS.
Storage	Use a manualdefrost freezer and avoid repeated freeze-thaw cycles. 12 months from date ofreceipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditionsafter reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Antxr2 anthrax toxin receptor 2[Mus musculus]
Official Symbol	Antxr2
Synonyms	Antxr2; anthraxtoxin receptor 2; CMG2; CMG-2; cI-35; AW561899; 2310046B19Rik
Gene ID	71914
mRNA Refseq	NM_133738
Protein Refseq	NP_598499

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UniProt ID	Q3TCL6
Chromosome Location	5 E3; 5
Function	metal ion binding;receptor activity
PDB rendering basedon 1sht.	

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