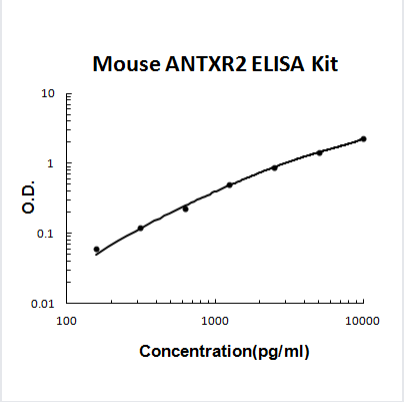
ANTXR2 ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	ANTXR2, ELISA Kit
Full Product Name	Mouse ANTXR2 ELISA Kit
Product Gene Name	ANTXR2 elisa kit
Product Synonym Names	Anthrax toxin receptor 2; Antxr2; anthrax toxin receptor 2
Species Reactivity	Mouse
Samples	cell culture supernatants, serum and plasma (heparin, EDTA, citrate)
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	<50pg/ml
Specificity	Natural and recombinant mouse ANTXR2
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)
Molecular Weight	53,184 Da
3D Structure	ModBase 3D Structure for Q6DFX2
Production Time	Due to severe delay and raw materials shortage, production time may takes between 5-8 weeks.
Capture/Detection Antibodies	Capture antibody- a monoclonal antibody from rat|Detection antibody- a biotinylated monoclonal antibody from goat
Sample Data	Concentration(pg/ml)|0|156|312|625|1250|2500|5000|10000 O.D.|0.015|0.076|0.134|0.239|0.509|0.904|1.457|2.265
Intra-Assay Precision	Sample|1|2|3| n|16|16|16| Mean(pg/ml)|242|1644|5631| Standard deviation|14.52|118.36|360.38| CV(%)|6%|7.2%|6.4%|
Inter-Assay Precision	Sample|1|2|3| n|24|24|24 Mean(pg/ml)|217|1771|5410 Standard deviation|14.53|146.99|394.93 CV(%)|6.7%|8.3%|7.3%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml)|Lot 2 (pg/ml)|Lot 3 (pg/ml)|Lot 4 (pg/ml)|Mean (pg/ml)|Standard Deviation|CV (%) Sample 1: 242|247|246|242|244|2.27|0.9% Sample 2: 1644|1884|1788|1601|1729|113.04|6.5% Sample 3: 5631|5520|5145|4973|5317|268.19|5% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: NS0; Immunogen sequence: Q32-G318
Anticoagulant	heparin, EDTA or citrate

Principle	Mouse ANTXR2 ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for ANTXR2 has been precoated onto 96-well plates. Standards(Expression system for standard: NS0, Immunogen sequence: Q32-G318) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for ANTXR2 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates are washed away with PBS or TBS buffer. HRP substrate TMB are used to visualize HRP enzymatic reaction. TMB is catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse ANTXR2 amount of sample captured in plate.
Assay Procedure Step 1	Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml mouse ANTXR2 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of mouse cell culture supernatants, serum or plasma (heparin, EDTA, citrate) to each empty well. See "Sample Dilution Guideline" for details. It is recommended that each mouse ANTXR2 standard solution and each sample be measured in duplicate.
TMB Incubation Time	15-20
Product Categories/Family for ANTXR2 elisa kit	ELISA kits
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for ANTXR2 elisa kit	Anthrax toxin receptor 2 is a protein that in humans is encoded by the ANTXR2 gene. It is mapped to 5; 5 E3. This gene encodes a receptor for anthrax toxin. The protein binds to collagen IV and laminin, suggesting that it may be involved in extracellular matrix adhesion. Mutations in this gene cause juvenile hyaline fibromatosis and infantile systemic hyalinosis. Multiple transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of ANTXR2 elisa kit 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 ANTXR2 purchase	MBS1753899 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the ANTXR2, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ANTXR2. The ELISA analytical biochemical technique of the MBS1753899 kit is based on ANTXR2 antibody-ANTXR2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ANTXR2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ANTXR2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of ANTXR2 elisa kit
Mouse ANTXR2 ELISA Kit Standard Curve

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ANTXR2. It may not necessarily be applicable to this product.

NCBI GI #	50355939
NCBI GeneID	71914

NCBI Accession #	NP_598499.1
UniProt Primary Accession #	Q6DFX2
UniProt Secondary Accession #	Q99L17
UniProt Related Accession #	Q6DFX2
GenBank Nucleotide #	NM_133738.1
NCBI Official Full Name	anthrax toxin receptor 2
NCBI Official Synonym Full Names	anthrax toxin receptor 2
NCBI Official Symbol	Antxr2
NCBI Official Synonym Symbols	CMG2; CMG-2; cI-35; AW561899; 2310046B19Rik
UniProt Protein Name	Anthrax toxin receptor 2
Protein Family	Anthrax toxin receptor
UniProt Gene Name	Antxr2
NCBI Protein Information	anthrax toxin receptor 2
UniProt Comments for ANTXR2	ANTXR2: Necessary for cellular interactions with laminin and the extracellular matrix. Defects in ANTXR2 are the cause of infantile systemic hyalinosis (ISH). This autosomal recessive syndrome is similar to JHF, but has an earlier onset and a more severe course. Symptoms appear at birth or within the first months of life, with painful, swollen joint contractures, osteopenia, osteoporosis and livid red hyperpigmentation over bony prominences. Patients develop multiple subcutaneous skin tumors and gingival hypertrophy. Hyaline deposits in multiple organs, recurrent infections and intractable diarrhea often lead to death within the first 2 years of life. Surviving children may suffer from severely reduced mobility due to joint contractures. Defects in ANTXR2 are the cause of juvenile hyaline fibromatosis (JHF). JHF is an autosomal recessive syndrome that is similar to ISH but takes a milder course. It is characterized by hyaline deposition in the dermis, multiple subcutaneous skin tumors and gingival hypertrophy, followed by progressive joint contractions, osteopenia and osteoporosis that may lead to a severe limitation of mobility. Belongs to the ATR family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 5|5 E3 Cellular Component: cell surface; external side of plasma membrane; integral to membrane Biological Process: reproductive process
Research Articles on ANTXR2	**1.** blood pressure measured under anesthesia in Antxr2 siRNA-injected mice rose significantly compared with that of the controls, suggesting that ANTXR2 is a causative gene in the human 4q21 GWAS-blood pressure locus.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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