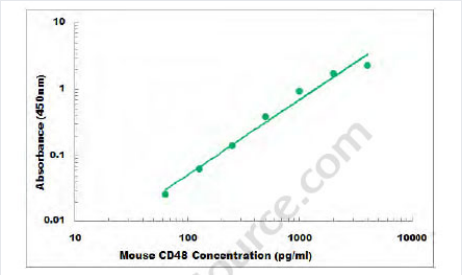
CD48 ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	CD48, ELISA Kit
Full Product Name	Mouse CD48 ELISA Kit
Product Gene Name	CD48 elisa kit
Product Synonym Names	BCM1; BLAST1; CD48 antigen; B-lymphocyte activation marker BLAST-1; BCM1 surface antigen; Leukocyte antigen MEM-102; SLAM family member 2; SLAMF2; Signaling lymphocytic activation molecule 2; TCT.1; CD48
Species Reactivity	Mouse
Samples	Cell Culture Supernatants, Serum, Plasma.
Sensitivity	10 pg/ml.
Specificity	The Mouse CD48 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Mouse CD48 proteins within the range of 62.5 pg/ml - 4000 pg/ml.
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	27,383 Da
3D Structure	ModBase 3D Structure for P18181
Applications Tested/Suitable for CD48 elisa kit	Sandwich ELISA (EIA)
Related Product Information for CD48 elisa kit	Principle of the Assay||The Mouse CD48 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Mouse CD48 in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Mouse CD48 coated on a 96-well plate. Standards and samples are pipetted into the wells and CD48 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Mouse CD48 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of CD48 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: CD48 antigen (Cluster of Differentiation 48), also known as BLAST-1 or SLAMF2, is a protein that in humans is encoded by the CD48 gene. CD48 is a member of the CD2 subfamily of the immunoglobulin superfamily (IgSF) which includes SLAM (signaling lymphocyte activation molecules) proteins, such as CD84, CD150, CD229 and CD244. It is mapped to 1q23.3. CD48 is found on the surface of lymphocytes and other immune cells, dendritic cells and endothelial cells, and participates in activation and differentiation pathways in these cells. The encoded protein does not have a transmembrane domain, however, but is held at the cell surface by a GPI anchor via a C-terminal domain which maybe cleaved to yield a soluble form of the receptor.
Other Notes	Small volumes of CD48 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 CD48 purchase	MBS8244653 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the CD48, 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 CD48. The ELISA analytical biochemical technique of the MBS8244653 kit is based on CD48 antibody-CD48 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CD48 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CD48. 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 of CD48 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD48. It may not necessarily be applicable to this product.

NCBI GI #	114872
NCBI GeneID	12506
NCBI Accession #	P18181.1
UniProt Primary Accession #	P18181
UniProt Secondary Accession #	Q545K2
UniProt Related Accession #	P18181
NCBI Official Full Name	CD48 antigen
NCBI Official Synonym Full Names	CD48 antigen
NCBI Official Symbol	Cd48
NCBI Official Synonym Symbols	BCM1; BLAST; Bcm-1; BLAST1; SLAMF2; Sgp-60; BLAST-1; MEM-102; AI449234; AW610730
UniProt Protein Name	CD48 antigen
UniProt Synonym Protein Names	BCM1 surface antigen; BLAST-1; HM48-1; MRC OX-45 surface antigen; SLAM family member 2; SLAMF2; Signaling lymphocytic activation molecule 2; sgp-60; CD_antigen: CD48
Protein Family	CD48 antigen
UniProt Gene Name	Cd48
UniProt Synonym Gene Names	Bcm-1; SLAMF2
UniProt Entry Name	CD48_MOUSE
NCBI Protein Information	CD48 antigen
UniProt Comments for CD48	CD48: Ligand for CD2. Might facilitate interaction between activated lymphocytes. Probably involved in regulating T-cell activation. Protein type: Membrane protein, GPI anchor Cellular Component: anchored to plasma membrane; external side of plasma membrane; lipid raft; membrane; plasma membrane; protein complex Molecular Function: antigen binding; protein binding Biological Process: mast cell activation; signal transduction; T cell activation
Research Articles on CD48	**1.** Molecular dynamic simulation explains unbinding and unfolding of CD48-2B4 protein complexes.

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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/mouse-elisa-kits/cd48/8244653