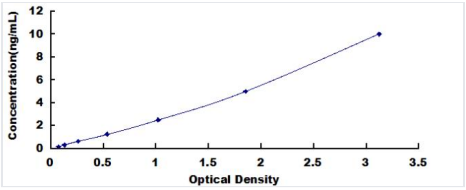
Cluster of Differentiation 109 (CD109) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cluster Of Differentiation 109 (CD109), ELISA Kit
Full Product Name	Human Cluster Of Differentiation 109 (CD109) ELISA Kit
Product Gene Name	CD109 elisa kit
Product Synonym Names	CPAMD7; p180; r150; Gov platelet alloantigens; 150 kDa TGF-beta-1-binding protein; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 7
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue Homogenates, Cell Lysates or Other Biological Fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.061ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	159,696 Da
OMIM	608859
3D Structure	ModBase 3D Structure for Q6YHK3
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CD109 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CD109. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CD109. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CD109, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of CD109 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CD109 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 CD109 purchase	MBS458214 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cluster Of Differentiation 109 (CD109) 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 CD109. The ELISA analytical biochemical technique of the MBS458214 kit is based on CD109 antibody-CD109 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CD109 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CD109. 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 CD109 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD109. It may not necessarily be applicable to this product.

NCBI GI #	227430301
NCBI GeneID	135228
NCBI Accession #	NP_001153059.1
UniProt Primary Accession #	Q6YHK3
UniProt Secondary Accession #	Q0P6K7; Q5SYA8; Q5XUM7; Q5XUM9; Q6MZI7; Q8N3A7; Q8N915; Q8TDJ2; A5YKK4; B2R948; B3KW25
UniProt Related Accession #	Q6YHK3
GenBank Nucleotide #	NM_001159587.2
NCBI Official Full Name	CD109 antigen isoform 2 preproprotein
NCBI Official Synonym Full Names	CD109 molecule
NCBI Official Symbol	CD109
NCBI Official Synonym Symbols	p180; r150; CPAMD7
UniProt Protein Name	CD109 antigen
UniProt Synonym Protein Names	150 kDa TGF-beta-1-binding protein; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 7; Platelet-specific Gov antigen; p180; r150; CD_antigen: CD109
Protein Family	CD109 antigen
UniProt Gene Name	CD109
UniProt Synonym Gene Names	CPAMD7
NCBI Protein Information	CD109 antigen
NCBI Summary for CD109	This gene encodes a glycosyl phosphatidylinositol (GPI)-linked glycoprotein that localizes to the surface of platelets, activated T-cells, and endothelial cells. The protein binds to and negatively regulates signalling by transforming growth factor beta (TGF-beta). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2014]
UniProt Comments for CD109	Modulates negatively TGFB1 signaling in keratinocytes.
Research Articles on CD109	**1.** CD109 knockdown upregulated IL-8 expression through activation of TGF-beta/Akt/NF-kappaB pathway in human umbilical vein endothelial cells
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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