CD177 Antigen (CD177) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	CD177 Antigen (CD177), ELISA Kit
Full Product Name	Mouse CD177 Antigen (CD177) ELISA Kit
Product Gene Name	CD177 elisa kit
Species Reactivity	Mouse
Preparation and Storage	Store at 2-8 degree C. The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.
Molecular Weight	27,061 Da
3D Structure	ModBase 3D Structure for Q8N6Q3
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Reproducibility	Intra-Assay: CV<10% Inter-Assay: CV<15%
Reactivity Note	No significant cross-reactivity or interference between this antigen and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection, therefore, cross reaction may still exist in some cases.
Product Categories/Family for CD177 elisa kit	Immunology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CD177 elisa kit	This ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of the targets.
Other Notes	Small volumes of CD177 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 CD177 purchase	MBS7255874 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the CD177 Antigen (CD177) 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 CD177. The ELISA analytical biochemical technique of the MBS7255874 kit is based on CD177 antibody-CD177 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CD177 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CD177. 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(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD177. It may not necessarily be applicable to this product.

NCBI GI #	110735433
NCBI GeneID	57126
NCBI Accession #	NP_065139.2
UniProt Primary Accession #	Q8N6Q3

UniProt Secondary Accession #	Q711Q2; Q8NCV9; Q96QH1; Q9HDA5
UniProt Related Accession #	Q8N6Q3
GenBank Nucleotide #	NM_020406.4
NCBI Official Full Name	CD177 antigen
NCBI Official Synonym Full Names	CD177 molecule
NCBI Official Symbol	CD177
NCBI Official Synonym Symbols	NB1; PRV1; HNA2A; PRV-1; HNA-2a; NB1 GP
UniProt Protein Name	CD177 antigen
UniProt Synonym Protein Names	Human neutrophil alloantigen 2a
Protein Family	CD177 antigen
UniProt Gene Name	CD177
UniProt Synonym Gene Names	NB1; PRV11 PublicationManual assertion based on opinion iniRef.1; PRV-11 PublicationManual assertion based on opinion iniRef.1
NCBI Protein Information	CD177 antigen
NCBI Summary for CD177	This gene encodes a glycosyl-phosphatidylinositol (GPI)-linked cell surface glycoprotein that plays a role in neutrophil activation. The protein can bind platelet endothelial cell adhesion molecule-1 and function in neutrophil transmigration. Mutations in this gene are associated with myeloproliferative diseases. Over-expression of this gene has been found in patients with polycythemia rubra vera. Autoantibodies against the protein may result in pulmonary transfusion reactions, and it may be involved in Wegener's granulomatosis. A related pseudogene, which is adjacent to this gene on chromosome 19, has been identified. [provided by RefSeq, Apr 2014]
UniProt Comments for CD177	In association with beta-2 integrin heterodimer ITGAM/CD11b and ITGB2/CD18, mediates activation of TNF-alpha primed neutrophils including degranulation and superoxide production (PubMed:21193407). In addition, by preventing beta-2 integrin internalization and attenuating chemokine signaling favors adhesion over migration (PubMed:28807980). Heterophilic interaction with PECAM1 on endothelial cells plays a role in neutrophil transendothelial migration in vitro (PubMed:17580308). However, appears to be dispensable for neutrophil recruitment caused by bacterial infection in vivo (PubMed:23461681). Acts as a receptor for the mature form of protease PRTN3 allowing its display at the cell surface of neutrophils (PubMed:17244676, PubMed:18462208). By displaying PRTN3 at the neutrophil cell surface, may play a role in enhancing endothelial cell junctional integrity and thus vascular integrity during neutrophil diapedesis (PubMed:23202369).
Research Articles on CD177	**1.** Characterization of the CD177 interaction with the ANCA antigen proteinase 3 responsible for autoimmune diseases has been reported.
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