CD177 Antigen (CD177) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	CD177 antigen, ELISA Kit
Full Product Name	Human CD177 antigen ELISA Kit
Product Gene Name	CD177 elisa kit
Product Synonym Names	CD177 antigen; Human neutrophil alloantigen 2a; HNA-2a; NB1 glycoprotein; NB1 GP; Polycythemia rubra vera protein 1; PRV-1; CD177; NB1; PRV1; UNQ595/PRO1181; CD177
Species Reactivity	Human
Samples	Serum, plasma, tissue homogenates and other biological fluids.
Detection Range	78-5000 pg/mL
Sensitivity	Less than 36pg/mL
Preparation and Storage	Store at 4 degree C
Molecular Weight	15,683 Da
OMIM	AF146747 mRNA
3D Structure	ModBase 3D Structure for Q8N6Q3
Assay Time	3-5h
Sample Volume	100T
Detection Wavelength	450 nm
Related Product Information for CD177 elisa kit	MBS9427465 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the CD177 antigen, 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 MBS9427465 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(%).
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.

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_020406.3
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; HNA-2a; NB1 glycoprotein; NB1 GP; Polycythemia rubra vera protein 1; PRV-1; CD_antigen: CD177
Protein Family	CD177 antigen
UniProt Gene Name	CD177
UniProt Synonym Gene Names	NB1; PRV1; HNA-2a; NB1 GP; PRV-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	CD177: Induced by CSF3 in resting granulocytes. Induced in patients with polycythemia vera (PV) and with essential thrombocythemia (ET). 3 isoforms of the human protein are produced by alternative splicing Protein type: Membrane protein, GPI anchor Chromosomal Location of Human Ortholog: 19q13.31 Cellular Component: plasma membrane Molecular Function: protein binding Biological Process: blood coagulation; leukocyte migration; neutrophil degranulation
Research Articles on CD177	**1.** Abundance of CD177hi neutrophils correlates with homozygosity for CD177 reference allele, while heterozygosity for ectopic CD177P1 gene conversion correlates with increased CD177neg neutrophils, in which both CD177P1 partially incorporated allele and paired intact CD177 allele are transcribed
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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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.

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