

Human CD163 CLIA Kit | CD163 clia kit

CD163 (Human) LumiAb ELISA Kit

CATALOG #
AAA318602

REACTIVITY
Human

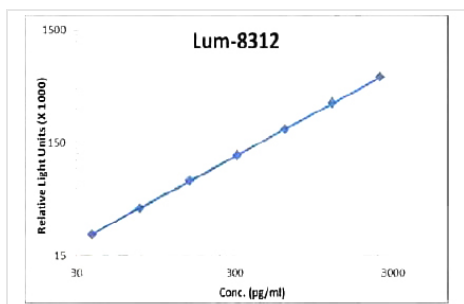
PRODUCT SYNONYMS

CD163; CD163 (Human) LumiAb ELISA Kit; Human CD163; Scavenger receptor cysteine-rich type 1 protein M130; Hemoglobin scavenger receptor; M130; CD163 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human Carbonic Anhydrase IX ELISA is capable of recognizing both recombinant and naturally produced Human Carbonic Anhydrase IX proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross-reactivity or interference.
Sequence Length	1156
Assay Type	Quantitative Sandwich
Sensitivity	8 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CD163 clia kit	Principle of the Assay: The LumiAb Human Carbonic Anhydrase IX Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human Carbonic Anhydrase IX concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Human Carbonic Anhydrase IX while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a sensitive luminescent reaction to ensue upon substrate addition. When the Peroxide Enhancer solution is added, the reaction catalyzed by peroxidase yields light that is representative of the antigen concentration. After a brief incubation, the microplate can be read with a luminometer, allowing for generation of a standard curve and subsequent determination of protein concentration!! Background/Introduction: Carbonic Anhydrase IX is a 459 amino acid protein that forms oligomers linked by disulfide bonds. Asn-346 bears high-mannose type glycan structures after post-translational modification. Carbonic Anhydrase IX is induced by hypoxia and is inhibited by coumarins, saccharin, sulfonamide derivatives such as acetazolamide (AZA) and Foscarnet (phosphonoformate trisodium salt). It forms oligomers linked by disulfide bonds and is found on the surface microvilli and in the nucleus, particularly in the nucleolus. Carbonic Anhydrase IX is a single-pass type I membrane protein that belongs to the alpha-carbonic anhydrase family and is expressed primarily in carcinoma cell lines. It is restricted to very few normal tissues and the most abundant expression is found in the epithelial cells of gastric mucosa. Carbonic Anhydrase IX catalyzes reversible hydration of carbon dioxide and participates in pH regulation. It may be involved in the control of cell proliferation and transformation, and it appears to be a novel specific biomarker for a cervical neoplasia.
Product Categories/Family for CD163 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	344179110
NCBI GeneID	9332
NCBI Accession #	NP_004235.4
NCBI GenBank Nucleotide #	NM_004244.5
UniProt Accession #	Q86VB7
NCBI Official Full Name	scavenger receptor cysteine-rich type 1 protein M130 isoform a
NCBI Official Synonym Full Names	CD163 molecule
NCBI Official Symbol	CD163
NCBI Official Synonym Symbols	M130; MM130; SCAR11
NCBI Protein Information	scavenger receptor cysteine-rich type 1 protein M130
UniProt Protein Name	Scavenger receptor cysteine-rich type 1 protein M130
UniProt Gene Name	CD163
UniProt Synonym Gene Names	M130; sCD163
UniProt Entry Name	C163A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.