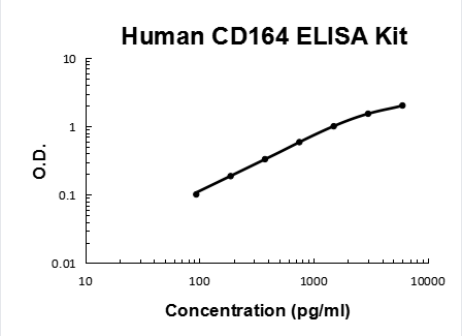
CD164 ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	CD164, ELISA Kit
Full Product Name	Human CD164 PicoKine Quick ELISA Kit
Product Gene Name	CD164 elisa kit
Species Reactivity	Human
Assay Type	Sandwich
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA, citrate)
Detection Range	93.7 pg/ml - 6,000 pg/ml
Sensitivity	<50 pg/ml
Specificity	Natural and recombinant Human CD164
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.)
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Molecular Weight	16,736 Da
OMIM	D14043 mRNA
3D Structure	ModBase 3D Structure for Q04900
Production Time	Due to severe delay and raw materials shortage, production time may takes between 5-8 weeks.
Product Categories/Family for CD164 elisa kit	PicoKine ELISA Kits, Fast ELISA Kits
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for CD164 elisa kit	ELISA (EIA)

Related Product Information for CD164 elisa kit	Background: Sialomucin core protein 24 also known as endolyn or CD164, is a protein that in humans is encoded by the CD164 gene. CD164 functions as a cell adhesion molecule. This gene is mapped to 6q21. The encoded protein also interacts with the C-X-C chemokine receptor type 4 and may regulate muscle development. Elevated expression of this gene has been observed in human patients with Sezary syndrome, a type of blood cancer, and a mutation in this gene may be associated with impaired hearing. Principle of the Assay: The Quick Picokine™ Human CD164 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human CD164 in cell culture supernatants, serum and plasma (heparin, EDTA, citrate). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit includes Human CD164 protein as standards. To measure Human CD164, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Human CD164 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CD164 in the sample.
Other Notes	Small volumes of CD164 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 CD164 purchase	MBS1756441 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the CD164, 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 CD164. The ELISA analytical biochemical technique of the MBS1756441 kit is based on CD164 antibody-CD164 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CD164 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CD164. 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 CD164 elisa kit
Human CD164 PicoKine ELISA Kit standard curve

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD164. It may not necessarily be applicable to this product.

NCBI GI #	257051036
NCBI GeneID	8763
NCBI Accession #	Q04900.2
UniProt Primary Accession #	Q04900
UniProt Secondary Accession #	O95413; Q5JSU6; Q9BPV0; Q9NR26; B4DQ85; E1P5E7; E1P5E8; E1P5E9
UniProt Related Accession #	Q04900
NCBI Official Full Name	Sialomucin core protein 24

NCBI Official Synonym Full Names	CD164 molecule
NCBI Official Symbol	CD164
NCBI Official Synonym Symbols	DFNA66; MGC-24; MUC-24; MGC-24v; endolyn
UniProt Protein Name	Sialomucin core protein 24
UniProt Synonym Protein Names	Endolyn; Multi-glycosylated core protein 24; MGC-24; MGC-24v; CD_antigen: CD164
Protein Family	Sialomucin core protein
UniProt Gene Name	CD164
UniProt Synonym Gene Names	MUC-24; MGC-24; MGC-24v
NCBI Protein Information	sialomucin core protein 24
NCBI Summary for CD164	This gene encodes a transmembrane sialomucin and cell adhesion molecule that regulates the proliferation, adhesion and migration of hematopoietic progenitor cells. The encoded protein also interacts with the C-X-C chemokine receptor type 4 and may regulate muscle development. Elevated expression of this gene has been observed in human patients with Sezary syndrome, a type of blood cancer, and a mutation in this gene may be associated with impaired hearing. [provided by RefSeq, Oct 2016]
UniProt Comments for CD164	Sialomucin that may play a key role in hematopoiesis by facilitating the adhesion of CD34+ cells to the stroma and by negatively regulating CD34+CD38(lo/-) cell proliferation. Modulates the migration of umbilical cord blood CD133+ cells and this is mediated through the CXCL12/CXCR4 axis. May play an important role in prostate cancer metastasis and the infiltration of bone marrow by cancer cells. Promotes myogenesis by enhancing CXCR4-dependent cell motility. Positively regulates myoblast migration and promotes myoblast fusion into myotubes ().
Research Articles on CD164	**1.** CD164 expression may have affected the proliferation and apoptosis of human glioma cells via the PTEN/phosphoinositide 3-kinase/AKT pathway.
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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