

## ARG82389 Human CD164 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82389-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82389-002	Standard	2 X 10 ng/vial	4°C
ARG82389-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82389-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82389-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82389-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82389-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82389-008	25X Wash buffer	20 ml	4°C
ARG82389-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82389-010	STOP solution	10 ml (Ready to use)	4°C
ARG82389-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82389 Human CD164 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CD164 in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	CD164
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	50 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	93.8 - 6000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.1% Inter-Assay CV: 6.7%

**Alternate Names** MGC-24; Multi-glycosylated core protein 24; CD antigen CD164; Endolyn; endolyn; Sialomucin core protein 24; MGC-24v; MUC-24

## Application Instructions

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**Assay Time** ~ 5 hours

## Properties

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**Form** 96 well

**Storage instruction** Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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**Gene Symbol** CD164

**Gene Full Name** CD164 molecule, sialomucin

**Background** Sialomucins are a heterogeneous group of secreted or membrane-associated mucins that appear to play 2 key but opposing roles in vivo: first as cytoprotective or antiadhesive agents, and second as adhesion receptors. CD164 is a type I integral transmembrane sialomucin that functions as an adhesion receptor (Watt et al., 1998 [PubMed 9680353]; Forde et al., 2007 [PubMed 17077324]). [supplied by OMIM, Aug 2008]

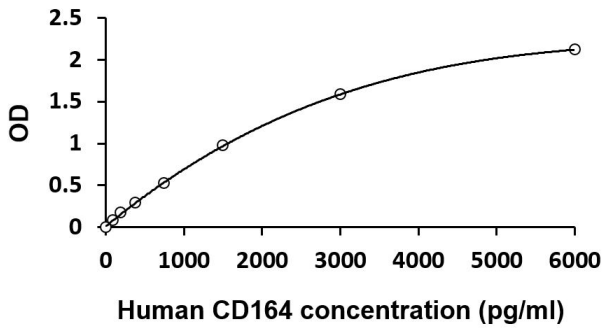
**Function** Sialomucin that may play a key role in hematopoiesis by facilitating the adhesion of CD34(+) cells to the stroma and by negatively regulating CD34(+)CD38(lo/-) cell proliferation. Modulates the migration of umbilical cord blood CD133+ cells and this is mediated through the CXCL12/CXCR4 axis. 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 (By similarity). [UniProt]

**Highlight** Related products:  
[CD164 antibodies](#); [CD164 ELISA Kits](#);  
New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

**PTM** Highly N- and O-glycosylated; contains sialic acid.

The motif Ser-Gly may serve as the site of attachment of a glycosaminoglycan side chain. [UniProt]

**Cellular Localization** Lysosome membrane; Single-pass type I membrane protein. Endosome membrane; Single-pass type I membrane protein. Cell membrane; Single-pass type I membrane protein. Isoform 2: Secreted. [UniProt]



ARG82389 Human CD164 ELISA Kit standard curve image

ARG82389 Human CD164 ELISA Kit results of a typical standard run with optical density reading at 450 nm.