CD164 Protein, Cynomolgus (HEK293, Fc)

Cat. No.:	HY-P77315
Synonyms:	Sialomucin core protein 24; MUC-24; Endolyn; MGC-24; CD164
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_005551610 (N26-D163)
Gene ID:	102136974
Molecular Weight:	Approximately 75-110 kDa to the glycosylation.

PROPERTIES

AA Sequence	N P T P H T N V T S L A P T S N I T S A P V T S L P L V T T P A P E T C E G R N S C V S C F N A S T V N T T C F W I E C K D E S Y C S H N S T V S D C Q V G N T T D F C S V V P T A T L V P T A N S T A K P T V Q P S P S T T S K T V T T S G T T N T T V T P T S Q P V R K S T F D
Biological Activity	When Recombinant Cynomolgus CD164 Protein is immobilized at 2 μg/mL (100 μL/well) can bind Anti-CD164 antibody. The ED_{50} for this effect is 3.053 μg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD164 Protein belongs to the mucin or sialomucin family of glycoproteins. It modulates umbilical cord blood $CD133^+$ cell migration through the CXCL12/CXCR4 axis and is associated with prostate cancer metastasis and bone marrow infiltration. CD164 enhances CXCR4-dependent cell motility, myoblast migration, and myoblast fusion into myotubes, exerting positive influences on myogenesis. The protein, existing as a homodimer (isoform 4), interacts with CXCR4 in these processes. Human CD164 is a type 1 integral transmembrane molecule containing in its extracellular region two highly 0-glycosylated

	domains linked by a cysteine-rich non-mucin subdomain[1].

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