

ARG81762 Human CD10 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81762-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81762-002	Standard	2 X 10 ng/vial	4°C
ARG81762-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81762-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81762-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81762-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81762-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81762-008	25X Wash buffer	20 ml	4°C
ARG81762-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81762-010	STOP solution	10 ml (Ready to use)	4°C
ARG81762-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81762 Human CD10 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CD10 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	CD10
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	62.5 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	125 - 8000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.1%; Inter-Assay CV: 7.4%
Alternate Names	Enkephalinase; Neutral endopeptidase; Neutral endopeptidase 24.11; Common acute lymphocytic leukemia antigen; Neprilysin; CD antigen CD10; CALLA; EC 3.4.24.11; CD10; Skin fibroblast elastase; SFE; Atriopeptidase; NEP

Application Instructions

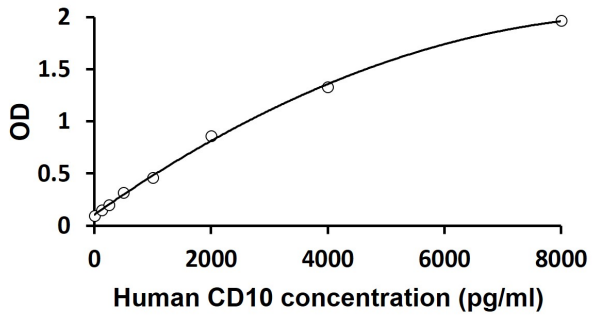
Assay Time	~ 5 hours
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Properties

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

Gene Symbol	MME
Gene Full Name	membrane metallo-endopeptidase
Background	CD10 is a type II transmembrane glycoprotein and a common acute lymphocytic leukemia antigen that is an important cell surface marker in the diagnosis of human acute lymphocytic leukemia (ALL). The encoded protein is present on leukemic cells of pre-B phenotype, which represent 85% of cases of ALL. This protein is not restricted to leukemic cells, however, and is found on a variety of normal tissues. The protein is a neutral endopeptidase that cleaves peptides at the amino side of hydrophobic residues and inactivates several peptide hormones including glucagon, enkephalins, substance P, neurotensin, oxytocin, and bradykinin. [provided by RefSeq, Aug 2017]
Function	CD10: Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids (PubMed:15283675, PubMed:8168535). Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond (PubMed:17101991). Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9 (PubMed:15283675). Involved in the degradation of atrial natriuretic factor (ANF) (PubMed:2531377, PubMed:2972276). Displays UV-inducible elastase activity toward skin preelastic and elastic fibers (PubMed:20876573). [UniProt]
Highlight	Related products: CD10 antibodies ; CD10 ELISA Kits ; CD10 Duos / Panels ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Myristoylation is a determinant of membrane targeting. Glycosylation at Asn-628 is necessary both for surface expression and neutral endopeptidase activity. [UniProt]



ARG81762 Human CD10 ELISA Kit standard curve image

ARG81762 Human CD10 ELISA Kit results of a typical standard run with optical density reading at 450 nm.