

ARG81853 Mouse CD13 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81853-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81853-002	Standard	2 X 20 ng/vial	4°C
ARG81853-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81853-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81853-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81853-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81853-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81853-008	25X Wash buffer	20 ml	4°C
ARG81853-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81853-010	STOP solution	10 ml (Ready to use)	4°C
ARG81853-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81853 Mouse CD13 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse CD13 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	CD13
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	156 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	312 - 20000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 7.1%; Inter-Assay CV: 7.8%
Alternate Names	AP-N; PEPN; LAP1; CD antigen CD13; Aminopeptidase M; gp150; Aminopeptidase N; EC 3.4.11.2; Myeloid plasma membrane glycoprotein CD13; APN; CD13; P150; AP-M; GP150; hAPN; Microsomal aminopeptidase; Alanyl aminopeptidase

Application Instructions

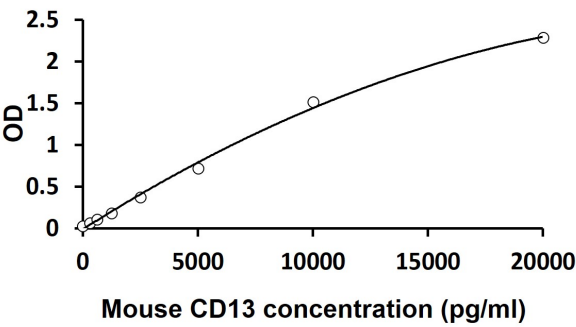
Assay Time	~ 5 hours
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Properties

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	ANPEP
Gene Full Name	alanyl (membrane) aminopeptidase
Background	Aminopeptidase N is located in the small-intestinal and renal microvillar membrane, and also in other plasma membranes. In the small intestine aminopeptidase N plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. Its function in proximal tubular epithelial cells and other cell types is less clear. The large extracellular carboxyterminal domain contains a pentapeptide consensus sequence characteristic of members of the zinc-binding metalloproteinase superfamily. Sequence comparisons with known enzymes of this class showed that CD13 and aminopeptidase N are identical. The latter enzyme was thought to be involved in the metabolism of regulatory peptides by diverse cell types, including small intestinal and renal tubular epithelial cells, macrophages, granulocytes, and synaptic membranes from the CNS. Human aminopeptidase N is a receptor for one strain of human coronavirus that is an important cause of upper respiratory tract infections. Defects in this gene appear to be a cause of various types of leukemia or lymphoma. [provided by RefSeq, Jul 2008]
Function	Broad specificity aminopeptidase. Plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. May play a critical role in the pathogenesis of cholesterol gallstone disease. May be involved in the metabolism of regulatory peptides of diverse cell types, responsible for the processing of peptide hormones, such as angiotensin III and IV, neuropeptides, and chemokines. Found to cleave antigen peptides bound to major histocompatibility complex class II molecules of presenting cells and to degrade neurotransmitters at synaptic junctions. Is also implicated as a regulator of IL-8 bioavailability in the endometrium, and therefore may contribute to the regulation of angiogenesis. Is used as a marker for acute myeloid leukemia and plays a role in tumor invasion. In case of human coronavirus 229E (HCoV-229E) infection, serves as receptor for HCoV-229E spike glycoprotein. Mediates as well human cytomegalovirus (HCMV) infection. [UniProt]
Highlight	Related products: CD13 antibodies ; CD13 ELISA Kits ; CD13 recombinant proteins ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Sulfated. N- and O-glycosylated. May undergo proteolysis and give rise to a soluble form. [UniProt]



ARG81853 Mouse CD13 ELISA Kit standard curve image

ARG81853 Mouse CD13 ELISA Kit results of a typical standard run with optical density reading at 450 nm.