

## ARG81770 Mouse CD31 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81770-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81770-002	Standard	2 X 10 ng/vial	4°C
ARG81770-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81770-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81770-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81770-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81770-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81770-008	25X Wash buffer	20 ml	4°C
ARG81770-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81770-010	STOP solution	10 ml (Ready to use)	4°C
ARG81770-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81770 Mouse CD31 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse CD31 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	CD31
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.8%; Inter-Assay CV: 7.6%
Alternate Names	EndoCAM; CD31/EndoCAM; PECAM-1; CD31; PECA1; CD antigen CD31; GPIIA'; endoCAM; Platelet endothelial cell adhesion molecule

## Application Instructions

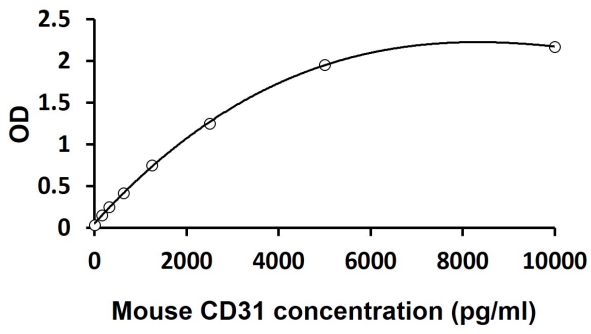
Assay Time	~ 5 hours
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## Properties

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	PECAM1
Gene Full Name	platelet/endothelial cell adhesion molecule 1
Background	CD31 protein is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. The encoded protein is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis, and integrin activation. [provided by RefSeq, May 2010]
Function	<p>CD31 is a cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions (PubMed:19342684, PubMed:17580308). Tyr-690 plays a critical role in TEM and is required for efficient trafficking of PECAM1 to and from the lateral border recycling compartment (LBRC) and is also essential for the LBRC membrane to be targeted around migrating leukocytes (PubMed:19342684). Trans-homophilic interaction may play a role in endothelial cell-cell adhesion via cell junctions (PubMed:27958302). Heterophilic interaction with CD177 plays a role in transendothelial migration of neutrophils (PubMed:17580308). Homophilic ligation of PECAM1 prevents macrophage-mediated phagocytosis of neighboring viable leukocytes by transmitting a detachment signal (PubMed:12110892). Promotes macrophage-mediated phagocytosis of apoptotic leukocytes by tethering them to the phagocytic cells; PECAM1-mediated detachment signal appears to be disabled in apoptotic leukocytes (PubMed:12110892). Modulates bradykinin receptor BDKRB2 activation (PubMed:18672896). Regulates bradykinin- and hyperosmotic shock-induced ERK1/2 activation in endothelial cells (PubMed:18672896). Induces susceptibility to atherosclerosis.</p> <p>Isoform Delta15: Does not protect against apoptosis. [UniProt]</p>
Highlight	<p>Related products:  <a href="#">CD31 antibodies</a>; <a href="#">CD31 ELISA Kits</a>; <a href="#">CD31 Duos / Panels</a>;            New ELISA data calculation tool:  <a href="#">Simplify the ELISA analysis by GainData</a></p>
PTM	<p>Phosphorylated on Ser and Tyr residues after cellular activation. Phosphorylated on tyrosine residues by FER and FES in response to FCER1 activation (By similarity). In endothelial cells Fyn mediates mechanical-force (stretch or pull) induced tyrosine phosphorylation.</p> <p>Palmitoylation by ZDHHC21 is necessary for cell surface expression in endothelial cells and enrichment in membrane rafts. [UniProt]</p>



ARG81770 Mouse CD31 ELISA Kit standard curve image

ARG81770 Mouse CD31 ELISA Kit results of a typical standard run with optical density reading at 450 nm.