

ARG81489 Human Angiopoietin like 4 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81489-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81489-002	Standard	2 X 40 ng/vial	4°C
ARG81489-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81489-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81489-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81489-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81489-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81489-008	25X Wash buffer	20 ml	4°C
ARG81489-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81489-010	STOP solution	10 ml (Ready to use)	4°C
ARG81489-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81489 Human Angiopoietin like 4 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Angiopoietin like 4 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	Angiopoietin like 4
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	312.5 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	625 - 40000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.6% Inter-Assay CV: 6.1%
Alternate Names	UNQ171; NL2; pp1158; FIAF; Angiopoietin-like protein 4; TGQTL; Hepatic fibrinogen/angiopoietin-related protein; Angiopoietin-related protein 4; ARP4; PGAR; HFARP; HARP

Application Instructions

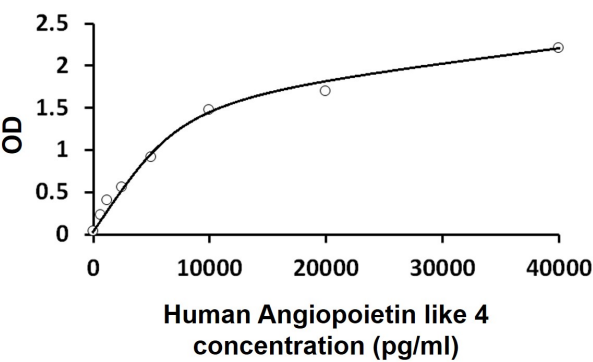
Assay Time	~ 5 hours
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Properties

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	ANGPTL4
Gene Full Name	angiopoietin-like 4
Background	This gene encodes a glycosylated, secreted protein containing a C-terminal fibrinogen domain. The encoded protein is induced by peroxisome proliferation activators and functions as a serum hormone that regulates glucose homeostasis, lipid metabolism, and insulin sensitivity. This protein can also act as an apoptosis survival factor for vascular endothelial cells and can prevent metastasis by inhibiting vascular growth and tumor cell invasion. The C-terminal domain may be proteolytically-cleaved from the full-length secreted protein. Decreased expression of this gene has been associated with type 2 diabetes. Alternative splicing results in multiple transcript variants. This gene was previously referred to as ANGPTL2 but has been renamed ANGPTL4. [provided by RefSeq, Sep 2013]
Function	Protein with hypoxia-induced expression in endothelial cells. May act as a regulator of angiogenesis and modulate tumorigenesis. Inhibits proliferation, migration, and tubule formation of endothelial cells and reduces vascular leakage. May exert a protective function on endothelial cells through an endocrine action. It is directly involved in regulating glucose homeostasis, lipid metabolism, and insulin sensitivity. In response to hypoxia, the unprocessed form of the protein accumulates in the subendothelial extracellular matrix (ECM). The matrix-associated and immobilized unprocessed form limits the formation of actin stress fibers and focal contacts in the adhering endothelial cells and inhibits their adhesion. It also decreases motility of endothelial cells and inhibits the sprouting and tube formation (By similarity). [UniProt]
Highlight	Related products: Angiopoietin antibodies ; Angiopoietin ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	N-glycosylated. [UniProt]



ARG81489 Human Angiopoietin like 4 ELISA Kit standard curve image

ARG81489 Human Angiopoietin like 4 ELISA Kit results of a typical standard run with optical density reading at 450 nm.