

ARG81564 Human CD66a / CEACAM1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81564-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81564-002	Standard	2 X 20 ng/vial	4°C
ARG81564-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81564-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81564-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81564-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81564-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81564-008	25X Wash buffer	20 ml	4°C
ARG81564-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81564-010	STOP solution	10 ml (Ready to use)	4°C
ARG81564-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81564 Human CD66a / CEACAM1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CD66a / CEACAM1 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	CD66a / CEACAM1
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: 5.7% Inter-Assay CV: 6.8%
Alternate Names	Carcinoembryonic antigen-related cell adhesion molecule 1; BGP-1; BGP1; Biliary glycoprotein 1; BGP; BGPI; CD antigen CD66a

Application Instructions

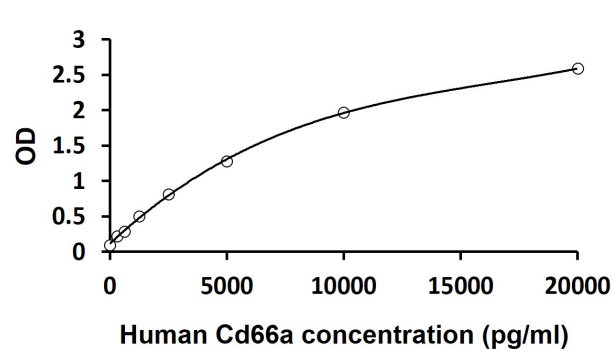
Assay Time	~ 5 hours
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Properties

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	CEACAM1
Gene Full Name	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
Background	<p>This gene encodes a member of the carcinoembryonic antigen (CEA) gene family, which belongs to the immunoglobulin superfamily. Two subgroups of the CEA family, the CEA cell adhesion molecules and the pregnancy-specific glycoproteins, are located within a 1.2 Mb cluster on the long arm of chromosome 19. Eleven pseudogenes of the CEA cell adhesion molecule subgroup are also found in the cluster. The encoded protein was originally described in bile ducts of liver as biliary glycoprotein. Subsequently, it was found to be a cell-cell adhesion molecule detected on leukocytes, epithelia, and endothelia. The encoded protein mediates cell adhesion via homophilic as well as heterophilic binding to other proteins of the subgroup. Multiple cellular activities have been attributed to the encoded protein, including roles in the differentiation and arrangement of tissue three-dimensional structure, angiogenesis, apoptosis, tumor suppression, metastasis, and the modulation of innate and adaptive immune responses. Multiple transcript variants encoding different isoforms have been reported, but the full-length nature of all variants has not been defined. [provided by RefSeq, May 2010]</p>
Highlight	<p>Related products: CD66 antibodies; CD66 ELISA Kits; CD66 Duos / Panels; New ELISA data calculation tool: Simplify the ELISA analysis by GainData</p>
PTM	<p>Isoform 1: Phosphorylated on serine and tyrosine (By similarity). Isoform 1 is phosphorylated on tyrosine by Src family kinases like SRC and LCK and by receptor like CSF3R, EGFR and INSR upon stimulation (PubMed:15467833, PubMed:18424730, PubMed:7478590). Phosphorylated at Ser-508; mediates activity. Phosphorylated at Tyr-493; regulates activity (By similarity). Phosphorylated at Tyr-493 by EGFR and INSR upon stimulation; this phosphorylation is Ser-508-phosphorylation-dependent; mediates cellular internalization; increases interaction with downstream proteins like SHC1 and FASN (By similarity). Phosphorylated at Tyr-493 and Tyr-520 by LCK; mediates PTPN6 association and is regulated by homophilic ligation of CEACAM1 in the absence of T cell activation (PubMed:18424730). Phosphorylated at Tyr-520; mediates interaction with PTPN11 (By similarity).</p> <p>Isoform 8: Phosphorylated on serine and threonine. [UniProt]</p>



ARG81564 Human CD66a / CEACAM1 ELISA Kit standard curve image

ARG81564 Human CD66a / CEACAM1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.