

ARG82608 Human CA12 / Carbonic Anhydrase 12 ELISA Kit

Package: 96 wells

Store at: 4°C

Summary

Product Description	ARG82608 Human CA12 / Carbonic Anhydrase 12 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CA12 / Carbonic Anhydrase 12 in serum, plasma and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	This kit could assay both natural and recombinant Human CA12. No significant cross-reactivity or interference was observed in the following samples: Human: IFN gamma, IL1 beta, IL2, IL4, IL5, IL6, IL8, IL10, IL12, IL17A, IL18, IL21, IL22, IL23, MCP1, TGF beta 1, TNF alpha and VEGF. Mouse: GM-CSF, IFN gamma, IL1 beta, IL2, IL4, IL6, IL10, IL17A and TNF alpha. Rat: IFN gamma, IL1 beta, IL4, IL6, IL10 and TNF alpha.
Target Name	CA12 / Carbonic Anhydrase 12
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	39 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	78 - 5000 pg/ml
Sample Volume	50 µl
Precision	Intra-Assay CV: 2.2% Inter-Assay CV: 2.9%
Alternate Names	Carbonic anhydrase 12; Tumor antigen HOM-RCC-3.1.3; EC 4.2.1.1; HsT18816; Carbonic anhydrase XII; CAXII; CA-XII; Carbonate dehydratase XII

Application Instructions

Assay Time	~ 2.5 hours
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Properties

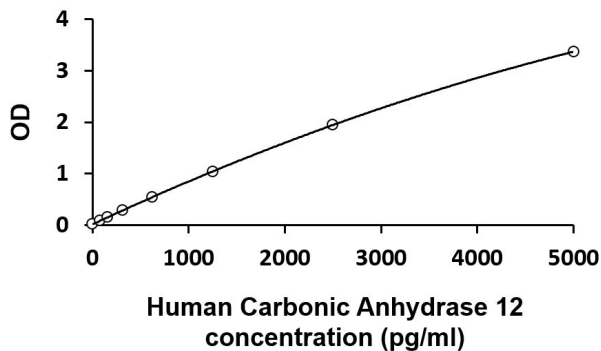
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CA12
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Gene Full Name	carbonic anhydrase XII
Background	Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. This gene product is a type I membrane protein that is highly expressed in normal tissues, such as kidney, colon and pancreas, and has been found to be overexpressed in 10% of clear cell renal carcinomas. Three transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jun 2014]
Function	Reversible hydration of carbon dioxide. [UniProt]
Highlight	Related products: Carbonic Anhydrase antibodies ; Carbonic Anhydrase ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Cellular Localization	Membrane; Single-pass type I membrane protein. [UniProt]

Images



ARG82608 Human CA12 / Carbonic Anhydrase 12 ELISA Kit standard curve image

ARG82608 Human CA12 / Carbonic Anhydrase 12 ELISA Kit results of a typical standard run with optical density reading at 450 nm.