

ARG82599 Human CA14 / Carbonic Anhydrase 14 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82599 Human CA14 / Carbonic Anhydrase 14 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CA14 / Carbonic Anhydrase 14 in serum, plasma and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	<p>This kit could assay both natural and recombinant Human CA14.</p> <p>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.</p>
Target Name	CA14 / Carbonic Anhydrase 14
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.16 ng/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	0.31 - 20 ng/ml
Sample Volume	50 µl
Precision	Intra-Assay CV: 4.0% Inter-Assay CV: 4.2%
Alternate Names	Carbonate dehydratase XIV; CA-XIV; Carbonic anhydrase 14; EC 4.2.1.1; CAXIV; Carbonic anhydrase XIV

Application Instructions

Assay Time	~ 2.5 hours
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Properties

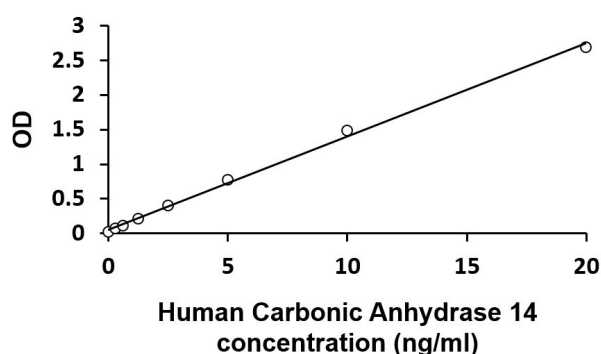
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory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

Bioinformation

Gene Symbol	CA14
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Gene Full Name	carbonic anhydrase XIV
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. They show extensive diversity in tissue distribution and in their subcellular localization. CA XIV is predicted to be a type I membrane protein and shares highest sequence similarity with the other transmembrane CA isoform, CA XII; however, they have different patterns of tissue-specific expression and thus may play different physiologic roles. [provided by RefSeq, Jul 2008]
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



ARG82599 Human CA14 / Carbonic Anhydrase 14 ELISA Kit standard curve image

ARG82599 Human CA14 / Carbonic Anhydrase 14 ELISA Kit results of a typical standard run with optical density reading at 450 nm.