ARG64966
anti-CA1 / Carbonic Anhydrase 1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes CA1 / Carbonic Anhydrase 1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat
Tested Application	IHC-P, WB
Specificity	Reported variants represent identical protein: NP_001729.1, NP_001122303.1, NP_001122302.1, NP_001122301.1.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	CA1 / Carbonic Anhydrase 1
Species	Human
Immunogen	C-QAIKTKGKRAP
Conjugation	Un-conjugated
Alternate Names	Carbonic anhydrase I; EC 4.2.1.1; Carbonate dehydratase I; Carbonic anhydrase B; Car1; HEL-S-11; CA-I; Carbonic anhydrase 1; CAB

Application Instructions

Application table

Application	Dilution
IHC-P	2.5 µg/ml
WB	0.03 - 0.1 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

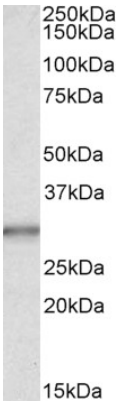
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

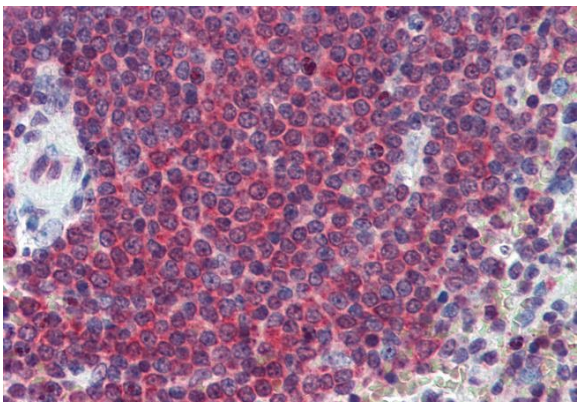
Database links	GeneID: 759 Human Swiss-port # P00915 Human
Background	Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, 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. CA1 is closely linked to CA2 and CA3 genes on chromosome 8, and it encodes a cytosolic protein which is found at the highest level in erythrocytes. Variants of this gene have been described in some populations. Multiple alternatively spliced variants, encoding the same protein, have been identified. Transcript variants of CA1 utilizing alternative polyA_sites have been described in literature. [provided by RefSeq, Sep 2009]
Research Area	Cell Biology and Cellular Response antibody
Calculated Mw	29 kDa

Images



ARG64966 anti-CA1 / Carbonic Anhydrase 1 antibody WB image

Western blot: Human Liver lysate (35 µg protein in RIPA buffer) stained with ARG64966 anti-CA1 / Carbonic Anhydrase 1 antibody at 0.03 µg/ml dilution.



ARG64966 anti-CA1 / Carbonic Anhydrase 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human spleen tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64966 anti-CA1 / Carbonic Anhydrase 1 antibody at 2.5 µg/ml dilution followed by AP-staining.