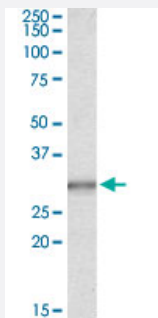


CA1 polyclonal antibody

Catalog # PAB18720 Size 100 ug

Applications



Western Blot (Tissue lysate)

CA1 polyclonal antibody (Cat # PAB18720) (0.03 ug/mL) staining of human liver lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of CA1.
Immunogen	A synthetic peptide corresponding to amino acids at internal region of human CA1.
Sequence	C-QAIKTKGKRAP
Host	Goat
Theoretical MW (kDa)	29
Reactivity	Human
Specificity	Reported variants represent identical protein: NP_001729.1, NP_001122303.1, NP_001122302.1, NP_001122301.1.
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL

Recommend Usage	ELISA (1:64000) Western Blot (0.03-0.1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — CA1

Entrez GeneID	759
Protein Accession#	NP_001729.1
Gene Name	CA1
Gene Alias	Car1
Gene Description	carbonic anhydrase I
Omim ID	114800
Gene Ontology	Hyperlink
Gene Summary	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]

Other Designations

carbonic dehydratase

Pathway

- [Nitrogen metabolism](#)

Disease

- [Diabetic Retinopathy](#)