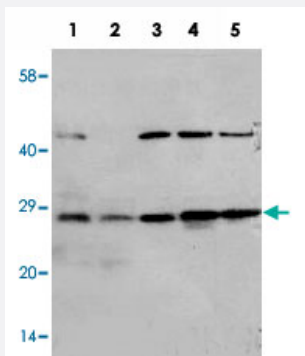


CA1 polyclonal antibody

Catalog # PAB19518 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of whole cell extracts with CA1 polyclonal antibody (Cat # PAB19518).

Lane 1, MCF-7

Lane 2, Smmc

Lane 3, A-549

Lane 4, Jurkat

Lane 5, Raji

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CA1.
Immunogen	A synthetic peptide corresponding to amino acids at N-terminus of human CA1.
Host	Rabbit
Reactivity	Human, Rat
Specificity	It different from the mouse sequence by one amino acid.
Form	Lyophilized
Purification	Immunoaffinity purification
Isotype	IgG
Recommend Usage	Western Blot (1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)

Storage Instruction

Store at -20°C on dry atmosphere.

After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower.

Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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Gene Info — CA1

Entrez GeneID[759](#)**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](#)