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[Primary Antibody]

Rabbit Anti-CA I antibody

Catalog Number: SL1592R

FOR RESEARCH USE ONLY

[DATASHEET]

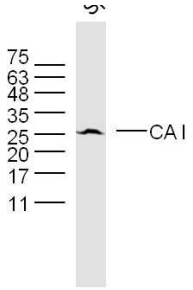
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CA I
Immunogen:	KLH conjugated synthetic peptide derived from human CA I: 161-261/261
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Cow,Rabbit,Sheep)
Predicted MW.:	29kDa
Subcellular Location:	The cell membrane Secretory protein
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]

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

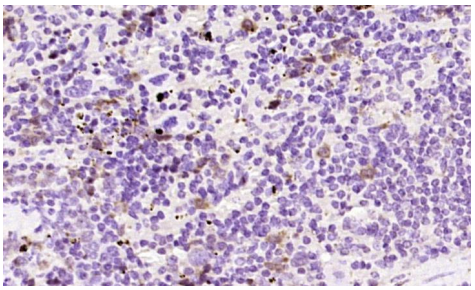
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	Function: Reversible hydration of carbon dioxide. **Subcellular Location:** Cytoplasm. **Similarity:** Belongs to the alpha-carbonic anhydrase family. **Database links:** **Entrez Gene:** 759 Human **Entrez Gene:** 12346 Mouse **Entrez Gene:** 310218 Rat Omim: 114800 Human **SwissProt:** P00915 Human **SwissProt:** P13634 Mouse **SwissProt:** B0BNN3 Rat **Unigene:** 23118 Human **Unigene:** 273195 Mouse **Unigene:** 6854 Rat CA1(Carbonic anhydrase1)It is one of the main protein components of red blood cells and is an important zinc enzyme，Plays a role in maintaining acid-base balance in blood and tissues，Assists tissues in the body in eliminating carbon dioxide，Carbonic anhydrase I participates in the physiological processes of respiration, calcification, acid-base balance, bone resorption and the formation of various body fluids.

[VALIDATION IMAGES]



Sample:
Spleen (Mouse) Lysate at 40 ug
Primary: Anti- CA I (SL1592R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 29 kD
Observed band size: 29 kD



Paraformaldehyde-fixed, paraffin embedded (mouse spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CA I) Polyclonal Antibody, Unconjugated (SL1592R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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