

## Product datasheet for **TA323825S**

### Carbonic Anhydrase I (CA1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 200-1000 WB positive control: Human lung cancer tissue
Reactivity:	Human, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Full length fusion protein
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	29 kDa
Gene Name:	carbonic anhydrase 1
Database Link:	<a href="#">NP_001122301</a> <a href="#">Entrez Gene 759 Human</a> <a href="#">P00915</a>

**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.



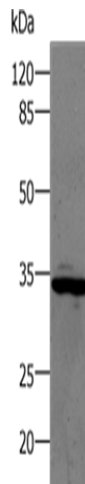
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**Synonyms:** CA-I; CAB; Car1; HEL-S-11

**Protein Families:** Druggable Genome

**Protein Pathways:** Nitrogen metabolism

**Product images:**



Gel: 10%SDS-PAGE

Lysate: 24  $\mu$ g

Lane: Human lung cancer tissue

Primary antibody: [TA323825] (CA1 Antibody) at dilution 1/350

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 1 minute