

## Product datasheet for **TA322419**

### Carbonic Anhydrase XIV (CA14) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 500-2000 WB positive control: Human liver cancer tissue
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 26-290 amino acids of human carbonic anhydrase XIV
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
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:	38 kDa
Gene Name:	carbonic anhydrase 14
Database Link:	<a href="#">NP_036245</a> <a href="#">Entrez Gene 23632 Human</a> <a href="#">Q9ULX7</a>



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**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. CA XIV is predicted to be a type I membrane protein and shares highest sequence similarity with the other transmembrane CA isoform; CA XII; however; they have different patterns of tissue-specific expression and thus may play different physiologic roles.

**Synonyms:**

CAXiV

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Nitrogen metabolism

**Product images:**

Gel: 10%SDS-PAGE  
Lysate: 30 µg  
Lane: Human liver cancer tissue  
Primary antibody: TA322419 (CA14 Antibody) at dilution 1/400  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
Exposure time: 20 seconds