ELK Biotechnology

CA XIV rabbit pAb

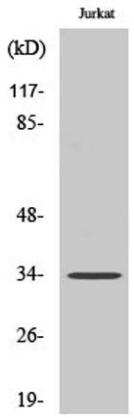
Cat No.:ES1816

For research use only

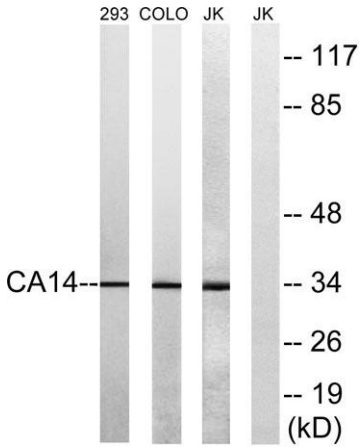
Overview

Product Name	CA XIV rabbit pAb
Host species	Rabbit
Applications	WB;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human CA14. AA range:161-210
Specificity	CA XIV Polyclonal Antibody detects endogenous levels of CA XIV protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Carbonic anhydrase 14
Gene Name	CA14
Cellular localization	Membrane ; Single-pass type I membrane protein .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	34kD
Human Gene ID	23632
Human Swiss-Prot Number	Q9ULX7
Alternative Names	CA14; Carbonic anhydrase 14; Carbonate dehydratase XIV; Carbonic anhydrase XIV; CA-XIV
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. [provided by RefSeq, Jul 2008],



Western Blot analysis of various cells using CA XIV Polyclonal Antibody



Western blot analysis of lysates from Jurkat, COLO, and 293 cells, using CA14 Antibody. The lane on the right is blocked with the synthesized peptide.

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