

## CA XIV Polyclonal Antibody

<b>Catalog No :</b>	YT0582
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	CA XIV
<b>Fields :</b>	>>Nitrogen metabolism;>>Metabolic pathways
<b>Gene Name :</b>	CA14
<b>Protein Name :</b>	Carbonic anhydrase 14
<b>Human Gene Id :</b>	23632
<b>Human Swiss Prot No :</b>	Q9ULX7
<b>Mouse Gene Id :</b>	23831
<b>Mouse Swiss Prot No :</b>	Q9WVT6
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human CA14. AA range:161-210
<b>Specificity :</b>	CA XIV Polyclonal Antibody detects endogenous levels of CA XIV protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 34kD

**Cell Pathway :** Nitrogen metabolism;

**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],

**Function :** catalytic activity:H(2)CO(3) = CO(2) + H(2)O.,cofactor:Zinc.,function:Reversible hydration of carbon dioxide.,similarity:Belongs to the alpha-carbonic anhydrase family.,tissue specificity:High expression in all parts of the central nervous system and lower expression in adult liver, heart, small intestine, colon, kidney, urinary bladder and skeletal muscle.,

**Subcellular Location :** Membrane ; Single-pass type I membrane protein .

**Expression :** High expression in all parts of the central nervous system and lower expression in adult liver, heart, small intestine, colon, kidney, urinary bladder and skeletal muscle.

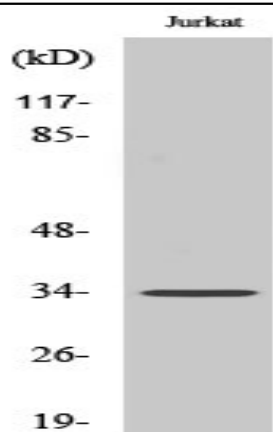
**Sort :** 2971

**No4 :** 1

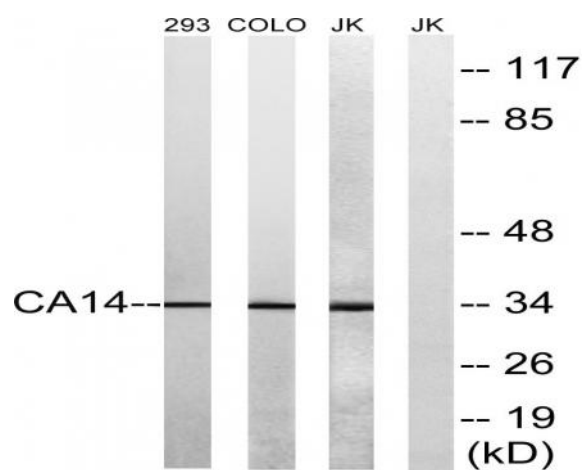
**Host :** Rabbit

**Modifications :** Unmodified

## Products Images



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.