



Rabbit Anti-CA12 antibody

SL6025R

Product Name:	CA12
Chinese Name:	碳酸酐酶12抗体
Alias:	CA 12; CA XII; Carbonate dehydratase XII; Carbonic anhydrase 12; Carbonic anhydrase XII; Carbonic dehydratase; CAXII; Tumor antigen HOM RCC 3.1.3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	37kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CA12:241-340/354<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	CA12 (Carbonic anhydrase XII) is a zinc metalloenzyme that catalyzes the reversible hydration of carbon dioxide. Function: Reversible hydration of carbon dioxide.

Subunit:

Homodimer.

Subcellular Location:

Membrane; Single-pass type I membrane protein.

Tissue Specificity:

Highly expressed in colon, kidney, prostate, intestine and activated lymphocytes. Expressed at much higher levels in the renal cell cancers than in surrounding normal kidney tissue. Moderately expressed in pancreas, ovary and testis.

DISEASE:

Defects in CA12 are the cause of hyperchlorhidrosis isolated (HCHLH) [MIM:143860]. HCHLH is a disorder characterized by excessive sweating and increased sweat chloride levels. Affected individuals suffer from episodes of hyponatremic dehydration and report increased amounts of visible salt precipitates in sweat.

Similarity:

Belongs to the alpha-carbonic anhydrase family.

SWISS:

O43570

Gene ID:

771

Database links:

[Entrez Gene: 771](#)Human

[Oimim: 603263](#)Human

[SwissProt: O43570](#)Human

[Unigene: 210995](#)Human

Important Note:

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