

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.
Research Area	Tumour Cell biology immunology TumourCell biologyMaker
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Pig,)
Applications	ELISA=1:5000-10000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	37kDa
Cellular localization	The cell membrane
Form	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
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
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

[Omir: 603263](#) Human

[SwissProt: O43570](#) Human

[Unigene: 210995](#) Human