



Rabbit Anti-ICA1 antibody

SL11349R

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| Product Name: | ICA1 |
| Chinese Name: | 胰岛细胞自身抗原1抗体 |
| Alias: | 69 kDa islet cell autoantigen; Diabetes mellitus type I autoantigen; ICA 1; ICA1; ICA69; ICA69_HUMAN; ICAp69; Islet cell autoantigen 1 (69kD); Islet cell autoantigen 1 69kDa; Islet cell autoantigen 1; Islet cell autoantigen 1 isoform; Islet cell autoantigen p69; OTTHUMP00000200933; OTTHUMP00000200934; OTTHUMP00000200941; OTTHUMP00000200993; p69. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Pig,Cow,Horse,Rabbit, |
| Applications: | WB=1:500-2000ELISA=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: | 55kDa |
| Cellular localization: | cytoplasmicThe cell membrane |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human ICA1:1-100/483 |
| 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: | Carbonic anhydrases (CAs), also designated carbonate dehydratases or carbonate hydrolyases, form a large family of genes that encode zinc metalloenzymes of great physiologic importance. As catalysts of the reversible hydration of carbon dioxide, |

these enzymes participate in a variety of biologic processes, including respiration, acid-base balance, bone resorption and calcification as well as the formation of aqueous humor, cerebrospinal fluid, saliva and gastric acid. Genes in the carbonic anhydrase family encode either active carbonic anhydrase isozymes or catalytic (devoid of CO₂ hydration activity) carbonic anhydrase-related proteins. Human CA I (CA1) is encoded by the CA1 gene, which maps to a region on chromosome 8 that harbors a cluster of CA genes. CA I localizes to the cytoplasm and research indicates that a severe deficiency of CA I does not result in any obvious hematological or renal consequences.

Function:

May play a role in neurotransmitter secretion (By similarity).

Subcellular Location:

Cytoplasm > cytosol. Golgi apparatus membrane. Cytoplasmic vesicle > secretory vesicle membrane. Cytoplasmic vesicle > secretory vesicle > synaptic vesicle membrane. Predominantly cytosolic. Also exists as a membrane-bound form which has been found associated with synaptic vesicles and also with the Golgi complex and immature secretory granules.

Tissue Specificity:

Expressed abundantly in pancreas, heart and brain with low levels of expression in lung, kidney, liver and thyroid.

Similarity:

Contains 1 AH domain.

SWISS:

Q05084

Gene ID:

3382

Database links:

[Entrez Gene: 3382](#)Human

[Entrez Gene: 15893](#)Mouse

[Entrez Gene: 81024](#)Rat

[Omim: 147625](#)Human

[SwissProt: Q05084](#)Human

[SwissProt: P97411](#)Mouse

[SwissProt: Q63054](#)Rat

[Unigene: 487561](#)Human

[Unigene: 275683](#)Mouse

[Unigene: 1379](#)Rat

Important Note:

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

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