10320 Camino Santa Fe, Suite G
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Anti-ICA1 Picoband Antibody

Catalog # ABO12183

Specification

Anti-ICA1 Picoband Antibody - Product Information

Application	**WB**
Primary Accession	Q05084
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Islet cell autoantigen 1(ICA1) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-ICA1 Picoband Antibody - Additional Information

Gene ID 3382

Other Names
Islet cell autoantigen 1, 69 kDa islet cell autoantigen, ICA69, Islet cell autoantigen p69, ICAp69, p69, ICA1

Calculated MW
54645 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human

Subcellular Localization
Cytoplasm, cytosol . Golgi apparatus membrane ; Peripheral membrane protein . Cytoplasmic vesicle, secretory vesicle membrane ; Peripheral membrane protein . Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane ; Peripheral membrane protein . 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.

Protein Name
Islet cell autoantigen 1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of human ICA1 (243-276aa EKTSHTMAAIHESFKGYQPYEFTTLKSLQDPMKK), identical to the related mouse and rat sequences.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-ICA1 Picoband Antibody - Protein Information

Name ICA1

Function
May play a role in neurotransmitter secretion.

Cellular Location
Cytoplasm, cytosol. Golgi apparatus membrane; Peripheral membrane protein. Cytoplasmic vesicle, secretory vesicle membrane; Peripheral membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Peripheral membrane protein. Note=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 Location
Expressed abundantly in pancreas, heart and brain with low levels of expression in lung, kidney, liver and thyroid

Anti-ICA1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-ICA1 Picoband Antibody - Images

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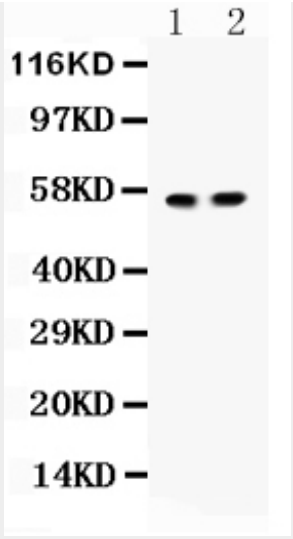

Anti- ICA1 Picoband antibody, ABO12183, Western blottingAll lanes: Anti ICA1 (ABO12183) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Mouse Pancreas Tissue Lysate at 50ugPredicted bind size: 55KDObserved bind size: 55KD

Anti-ICA1 Picoband Antibody - Background

Islet cell autoantigen 1 is a protein that in humans is encoded by the ICA1 gene. It is mapped to 7p22. This gene encodes a protein with an arfaptin homology domain that is found both in the cytosol and as membrane-bound form on the Golgi complex and immature secretory granules. Whatâ€™s more, this protein is believed to be an autoantigen in insulin-dependent diabetes mellitus and primary Sjogren's syndrome. Several transcript variants encoding two different isoforms have been found for this gene.