

# Anti-ICA1 Picoband Antibody

Catalog # ABO12183

## Product Information

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|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                              |
| <b>Primary Accession</b> | <a href="#">Q05084</a>                                                                                          |
| <b>Host</b>              | Rabbit                                                                                                          |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                               |
| <b>Clonality</b>         | Polyclonal                                                                                                      |
| <b>Format</b>            | Lyophilized                                                                                                     |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Islet cell autoantigen 1(ICA1) detection. Tested with WB in Human;Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                            |

## Additional Information

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| <b>Gene ID</b>                  | 3382                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Other Names</b>              | Islet cell autoantigen 1, 69 kDa islet cell autoantigen, ICA69, Islet cell autoantigen p69, ICAp69, p69, ICA1                                                                                                                                                                                                                                                                                                                                         |
| <b>Calculated MW</b>            | 54645                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Subcellular Localization</b> | 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. |
| <b>Tissue Specificity</b>       | Expressed abundantly in pancreas, heart and brain with low levels of expression in lung, kidney, liver and thyroid.                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Name</b>             | Islet cell autoantigen 1                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>                | 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.                                                                                                                                                                                                                                                                  |

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| <b>Purification</b>     | Immunogen affinity purified.                                                                                                                                                       |
| <b>Cross Reactivity</b> | No cross reactivity with other proteins                                                                                                                                            |
| <b>Storage</b>          | At -20 °C for one year. After reconstitution, 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. |

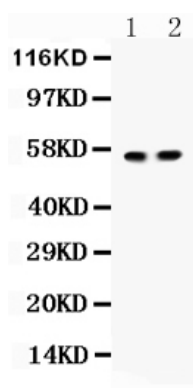
## Protein Information

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|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | ICA1                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Function</b>          | May play a role in neurotransmitter secretion.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Cellular Location</b> | 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 |
| <b>Tissue Location</b>   | Expressed abundantly in pancreas, heart and brain with low levels of expression in lung, kidney, liver and thyroid                                                                                                                                                                                                                                                                                                                                 |

## 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. What is 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.

## Images



Anti- ICA1 Picoband antibody, ABO12183, Western blotting  
 All lanes: Anti ICA1 (ABO12183) at 0.5ug/ml  
 Lane 1: Rat Brain Tissue Lysate at 50ug  
 Lane 2: Mouse Pancreas Tissue Lysate at 50ug  
 Predicted bind size: 55KD  
 Observed bind size: 55KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.