

ARG64670 anti-IA2 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes IA2
Tested Reactivity	Ms
Predict Reactivity	Hu, Rat
Tested Application	WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	IA2
Species	Human
Immunogen	C-QGEGNIKKNRHPD
Conjugation	Un-conjugated
Alternate Names	Islet cell antigen 512; ICA 512; ICA512; IA-2/PTP; IA2; PTP IA-2; Receptor-type tyrosine-protein phosphatase-like N; Islet cell autoantigen 3; IA-2; R-PTP-N

Application Instructions

Application table	Application	Dilution
	WB	0.5 - 1.5 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Background	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region, a single transmembrane region, and a single catalytic domain, and thus represents a receptor-type PTP. This PTP was found to be an autoantigen that is reactive with insulin-dependent diabetes mellitus (IDDM) patient sera, and thus may be a potential target of autoimmunity in diabetes mellitus. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Dec 2010]
Research Area	Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	106 kDa
PTM	N-glycosylated. O-glycosylated with core 1 or possibly core 8 glycans. Subject to proteolytic cleavage at multiple sites (PubMed:11483505). Subject to cleavage on a pair of basic residues (By similarity). On exocytosis of secretory granules in pancreatic beta-cells ICA512-TMF is transiently inserted in the plasma-membrane and cleaved by mu-type calpain CPN1 to yield ICA512-CCF (By similarity). Sumoylated at two sites including Lys-754. Sumoylation decreases interaction with STAT5.

Images



ARG64670 anti-IA2 antibody WB image

Western Blot: NIH 3T3 lysate (35 µg protein in RIPA buffer) stained with ARG64670 anti-IA2 antibody at 0.5 µg/ml dilution.