Human ICA1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4084

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ICA1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human ICA1 Ser2-Ala482 Accession # ABW03414
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

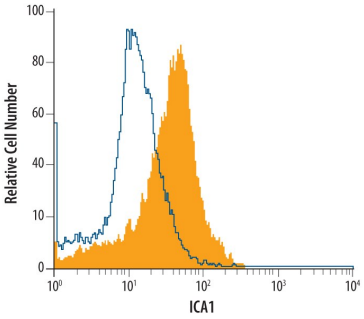
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human ICA1
Immunohistochemistry	5-15 µg/mL	Immersion fixed paraffin-embedded sections of human pancreatic cancer tissue subjected to Antigen Retrieval Reagent-Basic (Catalog # CTS013)
Intracellular Staining by Flow Cytometry	0.25 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

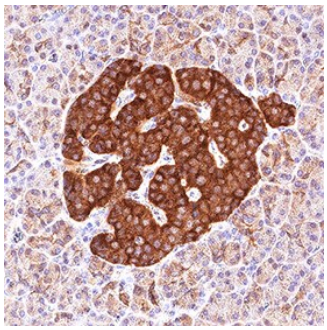
DATA

Intracellular Staining by Flow Cytometry



Detection of ICA1 in A172 Human Cell Line by Flow Cytometry. A172 human glioblastoma cell line was stained with Goat Anti-Human ICA1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4084, filled histo-gram) or isotype control antibody (Catalog # AB-108-C, open histo-gram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

Immunohistochemistry



ICA1 in paraffin-embedded human pancreas. ICA1 was detected in immersion fixed paraffin-embedded sections of human pancreas using Goat Anti-Human ICA1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4084) at 0.5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (red; Catalog # VC004) and counterstained with hematoxylin (blue). Specific staining was localized to islets of Langerhans.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Islet Cell Autoantigen 1 (ICA1), also known as ICA 69 kDa (ICA69), is a cytosolic protein that is associated with the Golgi complex and with immature secretory granules. Its N-terminal region shares similarity with arfaptins (ADP-ribosylation factor-interacting-proteins), suggesting that ICA1 likely plays a role in membrane trafficking. Human ICA-1 is a 483 amino acids (aa) protein. As a result of aa insertions, deletions and substitutions, multiple isoforms exist. Human ICA-1 shows 89% and 94% aa identity to mouse and canine ICA-1, respectively.

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