Human Reg1A Antibody

Monoclonal Rat IgG_{2B} Clone # 431202

Catalog Number: MAB4937

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Reg1A in direct ELISAs and Western blots. Does not cross-react with recombinant human (rh) Reg1B, rhReg4, recombinant rat (rr) Reg2, or rrReg3.
Source	Monoclonal Rat IgG_{2B} Clone # 431202
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Reg1A Gln23-Asn166 Accession # P05451
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 as a 0.2 μm filtered solution in PBS.

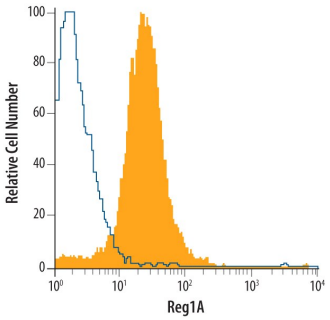
APPLICATIONS

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	1 µg/mL	Recombinant Human Reg1A
Intracellular Staining by Flow Cytometry	2.5 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 Reg1A in AGS Human Cell Line by Flow Cytometry. AGS human gastric adenocarcinoma cell line was stained with Rat Anti-Human Reg1A Monoclonal Antibody (Catalog # MAB4937, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG $F(ab')_2$ Secondary Antibody (Catalog # F0113). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

Reg1A, also known as PTP, PSP, and lithostathine, is a member of the Reg family of secreted proteins with a C-type lectin domain. Due to variable glycosylation, pancreatic Reg1A exists as multiple species of 16-18 kDa. Reg1A promotes the maintenance and growth of pancreatic islet β-cells and intestinal villi. It is up-regulated in pancreatitis and some carcinomas. Reg1A is an antigenic target in autoimmune diabetes. Human Reg1A shares 65%-68% aa sequence identity with mouse and rat Reg1A.

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