Human/Mouse PDX-1/IPF1 APC-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 267712

Catalog Number: IC2419A

100 Tests

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse PDX-1 in Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 267712
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human PDX-1 Ala91-Arg283 Accession # P52945
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

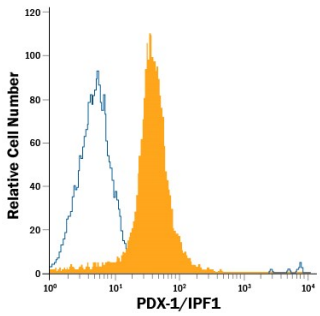
APPLICATIONS

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
Intracellular Staining by Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Intracellular Staining by Flow Cytometry



Detection of PDX-1/IPF1 in βTC-6 Mouse Cell Line by Flow Cytometry. βTC-6 mouse beta cell insulinoma cell line was stained with Mouse Anti-Human/Mouse PDX-1/IPF1 APC-conjugated Monoclonal Antibody (Catalog # IC2419A, filled histogram) or isotype control antibody (Catalog # IC0041A, open histogram). View our protocol for Staining Intracellular Molecules.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

PDX-1 (Pancreatic-duodenal Homeobox Factor-1), also known as IDX-1 and STF-1 is a 31 kDa member of the IPF-1 (Insulin Promoter Factor) subfamily, Antp (antennapedia) family of molecules. Human PDX-1 is 283 amino acids (aa) in length, and although its predicted MW is approximately 30 kDa, it runs anomalously in SDS-PAGE at 40-46 kDa. PDX-1 possesses one transctivation domain (aa 13-73) and one DNA-binding homeodomain (aa 146-205) that contains an NLS between aa 197-203. Phosphorylation is known to occur on Ser61 and Ser269, and methylation is found on Lys131. PDX-1 drives the development of the embryonic pancreas, and post-natally it is found in both β- and δ (somatostatin) islet cells. This transcription factor complexes with multiple cofactors (Set9; NeuroD1; MafA; HMGA1) in its regulation of β-cell division and insulin synthesis, and serves principally as an RNA pol II binding modulator. Over aa 91-283, human and mouse PDX-1 share 87% aa sequence identity.

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