Mouse/Rat PDX-1/IPF1 Alexa Fluor® 350-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2517U
100 µg

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse PDX-1/IPF1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse PDX-1/IPF1 Met1-Arg284 Accession # P52946
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

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 (Pancreas-duodenum homeobox 1; also IPF-1, IDX-1, STF-1, GSF and IUF-1) is a 42 kDa member of the IPF-1 subfamily, ANTP homeobox family of proteins. It is expressed in developing pancreas, plus pancreatic β-cells, and duodenal crypt epithelium. In concert with HNF6, PDX-1 drives pancreatic endocrine cell formation by regulating the expression of neurogenin-3. In adult β-cells, PDX-1 binds to PCIF-1 to regulate insulin production. Mouse PDX-1 is 284 amino acids (aa) in length (Accession # P52946). It contains one transactivation domain (aa 13-73) a PBX1 P-P-M-W-K dimerization motif (aa 119-124), and a DNA-binding homeodomain with an embedded NLS (aa 148-206). Full-length mouse PDX-1 shares 94% and 88% aa identity with rat and human PDX-1, respectively.

PRODUCT SPECIFIC NOTICES

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