

#5679 Store at -20C

Pdx1 (D59H3) XP® Rabbit mAb


Cell Signaling
TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-F, IF-IC	H M R	Endogenous	42	Rabbit IgG	#P52945	3651

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Frozen)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:200 - 1:800
1:200 - 1:800

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #68797.

Specificity / Sensitivity

Pdx1 (D59H3) XP® Rabbit mAb detects endogenous levels of total Pdx1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val274 of human Pdx1 protein.

Background

The pancreatic duodenal homeobox gene-1 (Pdx1) is a transcription factor that contributes to pancreas development, pancreatic β-cell differentiation, and mature β-cell function (1,2). It plays an essential role in the commitment of endoderm to a pancreatic and later β-cell phenotype (2,3). In the mature pancreas, Pdx1 expression is more restricted to the pancreatic β-cells (3), where it promotes the expression of genes important for β-cell functions such as insulin, glucokinase, and Glut2 (4-6). Mutations of the corresponding Pdx1 gene may be associated with diabetes and cases of pancreatic insufficiency (7).

Background References

1. Kaneto, H. et al. (2008) *Endocr J* 55, 235-52.
2. Habener, J.F. et al. (2005) *Endocrinology* 146, 1025-34.
3. Guz, Y. et al. (1995) *Development* 121, 11-8.
4. Ohlsson, H. et al. (1993) *EMBO J* 12, 4251-9.
5. Watada, H. et al. (1996) *Diabetes* 45, 1826-31.
6. Waeber, G. et al. (1996) *Mol Endocrinol* 10, 1327-34.
7. Cockburn, B.N. et al. (2004) *J Clin Endocrinol Metab* 89, 971-8.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **IF-F:** Immunofluorescence (Frozen)
IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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