

Store at -20C  
#5679**Pdx1 (D59H3) XP<sup>®</sup> Rabbit mAb**

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, 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<sup>®</sup> 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  $\beta$ -cell differentiation, and mature  $\beta$ -cell function (1,2). It plays an essential role in the commitment of endoderm to a pancreatic and later  $\beta$ -cell phenotype (2,3). In the mature pancreas, Pdx1 expression is more restricted to the pancreatic  $\beta$ -cells (3), where it promotes the expression of genes important for  $\beta$ -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**

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

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat

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