



# Pax-4 Monoclonal Antibody

<b>Catalog No</b>	BYmab-15737
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	PAX4
<b>Protein Name</b>	Paired box protein Pax-4
<b>Immunogen</b>	Purified recombinant fragment of human Pax-4 expressed in E. Coli.
<b>Specificity</b>	Pax-4 Monoclonal Antibody detects endogenous levels of Pax-4 protein.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	Affinity purification
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	PAX4; Paired box protein Pax-4
<b>Observed Band</b>	38kDa
<b>Cell Pathway</b>	Nucleus.
<b>Tissue Specificity</b>	Colon,Insulinoma,PCR rescued clones,Placenta,
<b>Function</b>	disease:Defects in PAX4 are a cause of noninsulin-dependent diabetes mellitus (NIDDM) [MIM:125853]; also known as diabetes mellitus type 2 or maturity-onset diabetes. NIDDM is characterized by an autosomal dominant mode of inheritance, onset during adulthood and insulin resistance.,disease:Defects in PAX4 are the cause of maturity-onset diabetes of the young type 9 (MODY9) [MIM:612225]. MODY [MIM:606391] is a form of diabetes mellitus characterized by an autosomal dominant mode of inheritance, age of onset of 25 years or younger and a primary defect in insulin secretion.,disease:Genetic variations in PAX4 are associated with susceptibility to insulin-dependent diabetes mellitus (IDDM) [MIM:222100]. IDDM normally starts in childhood or adolescence and is caused by the body's own immune system which destroys the insulin-producing beta cells in the pancreas. Classical features are polydipsi

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**Background**

This gene is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically contain a paired box domain, an octapeptide, and a paired-type homeodomain. These genes play critical roles during fetal development and cancer growth. The paired box 4 gene is involved in pancreatic islet development and mouse studies have demonstrated a role for this gene in differentiation of insulin-producing beta cells. [provided by RefSeq, Jul 2008],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Western Blot analysis using Pax-4 Monoclonal Antibody against HEK293 (1) and PAX4-hlgGFc transfected HEK293 (2) cell lysate.