

## Pax-4 Monoclonal Antibody

<b>Catalog No :</b>	YM0507
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	Pax-4
<b>Fields :</b>	>>Maturity onset diabetes of the young
<b>Gene Name :</b>	PAX4
<b>Protein Name :</b>	Paired box protein Pax-4
<b>Human Gene Id :</b>	5078
<b>Human Swiss Prot No :</b>	O43316
<b>Mouse Swiss Prot No :</b>	P32115
<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>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	38kD
<b>Cell Pathway :</b>	Maturity onset diabetes of the young;

**P References :**

1. PLoS One. 2008 Mar 12;3(3):e1783.
2. Diabetes Res Clin Pract. 2008 Sep;81(3):365-9.

**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],

**Function :**

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

**Subcellular Location :**

Nucleus.

**Expression :**

Colon,Insulinoma,PCR rescued clones,Placenta,

**Sort :**

11649

**No4 :**

1

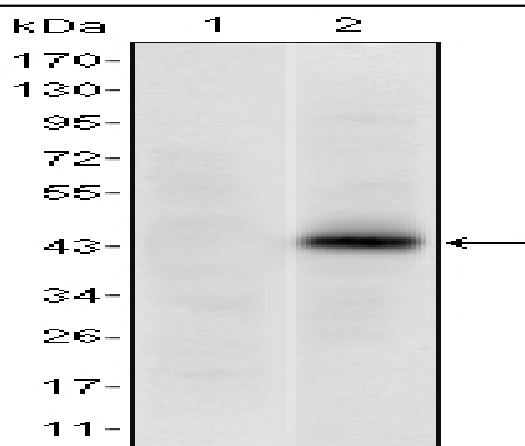
**Host :**

Mouse

**Modifications :**

Unmodified

**Products Images**



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

