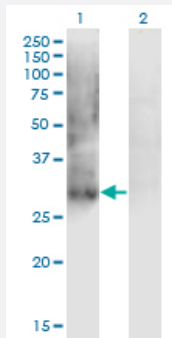


IPF1 monoclonal antibody (M02), clone 4E12

Catalog # H00003651-M02

Size 100 ug

Applications

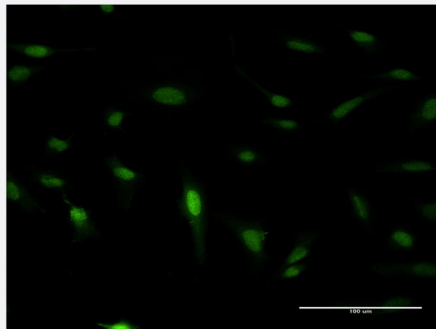


Western Blot (Transfected lysate)

Western Blot analysis of PDX1 expression in transfected 293T cell line by IPF1 monoclonal antibody (M02), clone 4E12.

Lane 1: PDX1 transfected lysate (Predicted MW: 31.13 KDa).

Lane 2: Non-transfected lysate.



Immunofluorescence

Immunofluorescence of monoclonal antibody to PDX1 on HeLa cell . [antibody concentration 10 ug/ml]

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant IPF1.
Immunogen	IPF1 (NP_000200, 109 a.a. ~ 208 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	LEEPNRVQLPFPWMKSTKAHAWKGQWAGGAYAAEPEENKRTRTAYTRAQLLELEKEFLFNKYIS RPRRVELAVMLNLTERHIKIWFQNRMRMKWKKEEDKK
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa

Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of PDX1 expression in transfected 293T cell line by IPF1 monoclonal antibody (M02), clone 4E12.

Lane 1: PDX1 transfected lysate (Predicted MW: 31.13 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to PDX1 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — PDX1

Entrez GeneID	3651
GeneBank Accession#	NM_000209
Protein Accession#	NP_000200
Gene Name	PDX1
Gene Alias	GSF, IDX-1, IPF1, IUF1, MODY4, PDX-1, STF-1
Gene Description	pancreatic and duodenal homeobox 1
Omim ID	125853 260370 600733
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is a transcriptional activator of several genes, including insulin, somatostatin, glucokinase, islet amyloid polypeptide, and glucose transporter type 2. The encoded nuclear protein is involved in the early development of the pancreas and plays a major role in glucose-dependent regulation of insulin gene expression. Defects in this gene are a cause of pancreatic agenesis, which can lead to early-onset insulin-dependent diabetes mellitus (NIDDM), as well as maturity onset diabetes of the young type 4 (MODY4). [provided by RefSeq]

Other Designations

OTTHUMP00000018174|glucose-sensitive factor|insulin promoter factor 1, homeodomain transcription factor|insulin upstream factor 1|pancreatic-duodenal homeobox factor 1|somatostatin transcription factor 1

Pathway

- [Maturity onset diabetes of the young](#)
- [Type II diabetes mellitus](#)

Disease

- [Atherosclerosis](#)
- [Cardiovascular Diseases](#)
- [Cerebral Infarction](#)
- [Diabetes](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Hypercholesterolemia](#)
- [Hypertension](#)
- [Intracranial Arteriosclerosis](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Obesity](#)
- [Renal Insufficiency](#)
- [Werner syndrome](#)