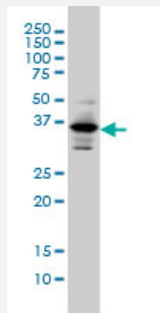


PITX1 monoclonal antibody (M01), clone 5G4

Catalog # H00005307-M01

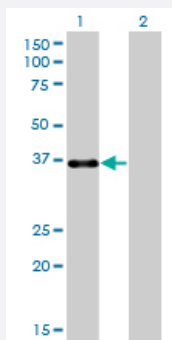
Size 100 ug

Applications



Western Blot (Cell lysate)

PITX1 monoclonal antibody (M01), clone 5G4 Western Blot analysis of PITX1 expression in HeLa S3 NE (Cat # L013V3).

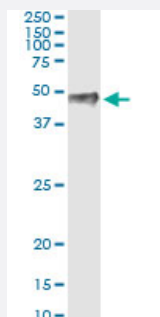


Western Blot (Transfected lysate)

Western Blot analysis of PITX1 expression in transfected 293T cell line by PITX1 monoclonal antibody (M01), clone 5G4.

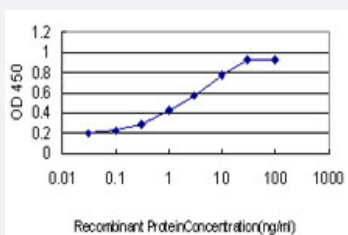
Lane 1: PITX1 transfected lysate(34.1 KDa).

Lane 2: Non-transfected lysate.



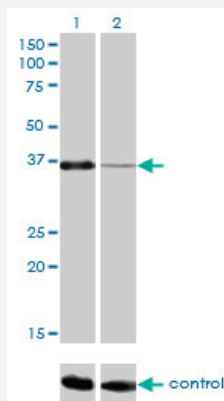
Immunoprecipitation

Immunoprecipitation of PITX1 transfected lysate using anti-PITX1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PITX1 MaxPab rabbit polyclonal antibody.



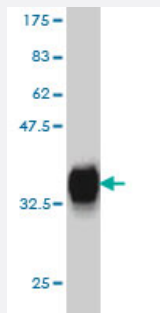
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PITX1 is approximately 0.03ng/ml as a capture antibody.



RNAi Knockdown (Antibody validated)

Western blot analysis of PITX1 over-expressed 293 cell line, cotransfected with PITX1 Validated Chimera RNAi (Cat # H00005307-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with PITX1 monoclonal antibody (M01), clone 5G4 (Cat # H00005307-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (35.53 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PITX1.
Immunogen	PITX1 (NP_002644, 225 a.a. ~ 313 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MPSSMGPGAVPGMPNSGLNNINNLTGSSLNSAMSPGACPYGTPASPYSVYRDTCNSSLASLRKSKQHSSFGYGGLQGPASGLNACQYN
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.53 KDa) .
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 (Cell lysate)

PITX1 monoclonal antibody (M01), clone 5G4 Western Blot analysis of PITX1 expression in Hela S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of PITX1 expression in transfected 293T cell line by PITX1 monoclonal antibody (M01), clone 5G4.

Lane 1: PITX1 transfected lysate(34.1 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of PITX1 transfected lysate using anti-PITX1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PITX1 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PITX1 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of PITX1 over-expressed 293 cell line, cotransfected with PITX1 Validated Chimera RNAi (Cat # H00005307-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with PITX1 monoclonal antibody (M01), clone 5G4 (Cat # H00005307-M01). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

Gene Info — PITX1

Entrez GeneID

[5307](#)

GeneBank Accession#	NM_002653
Protein Accession#	NP_002644
Gene Name	PITX1
Gene Alias	BFT, POTX, PTX1
Gene Description	paired-like homeodomain 1
Omim ID	602149
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the RIEG/PITX homeobox family, which is in the bicoid class of homeodomain proteins. Members of this family are involved in organ development and left-right asymmetry. This protein acts as a transcriptional regulator involved in basal and hormone-regulated activity of prolactin. [provided by RefSeq]
Other Designations	hindlimb expressed homeobox protein backfoot paired-like homeodomain transcription factor 1 pituitary homeo box 1 pituitary otx-related factor

Publication Reference

- [Downregulated PITX1 Modulated by MiR-19a-3p Promotes Cell Malignancy and Predicts a Poor Prognosis of Gastric Cancer by Affecting Transcriptionally Activated PDCD5.](#)

Qiao F, Gong P, Song Y, Shen X, Su X, Li Y, Wu H, Zhao Z, Fan H.

Cellular Physiology and Biochemistry 2018 May; 46(6):2215.

Application: ChIP, IHC-P, WB, WB-Tr, Human, AGS, BGC-823, MCG-803, SGC-7901, GES-1, MCG-PITX1 shRNA #1, MCG-PITX1 shRNA #10, AGS-pcDNA3.1, AGS-pPITX1, MCG-803-pcDNA3.1, MCG-803-pPITX1 cells, Gastric cancers

- [The c-Abl tyrosine kinase stabilizes Pitx1 in the apoptotic response to DNA damage.](#)

Yamaguchi T, Miki Y, Yoshida K.

Apoptosis 2010 Aug; 15(8):927.

Application: WB-Ce, WB-Tr, Human, K-562, MCF-7, U-2 OS cells

- [Transcriptional activation of p53 by Pitx1.](#)

Liu DX, Lobie PE.

Cell Death and Differentiation 2007 Aug; 14(11):1893.

Application: WB-Tr, Human, MCF-7 cells

Disease

- [Autistic Disorder](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Genetic Predisposition to Disease](#)