Mouse anti-Human PITX1 Monoclonal Antibody | anti-PITX1 antibody

PITX1 (Pituitary Homeobox 1, Paired-like Homeodomain Transcription Factor 1, Homeobox Protein PITX1, Hindlimb-expressed Homeobox Protein Backfoot, PTX1, BFT) (Biotin)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA24910	**Mouse**	**Human**	**ELISA, Immunoprecipitation, Western Blot**

PRODUCT SYNONYMS

PITX1; Monoclonal Antibody; PITX1 (Pituitary Homeobox 1; Paired-like Homeodomain Transcription Factor 1; Homeobox Protein PITX1; Hindlimb-expressed Homeobox Protein Backfoot; PTX1; BFT) (Biotin); anti-PITX1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	5G4
Specificity	Recognizes human PITX1.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Applicable Applications for anti-PITX1 antibody	ELISA, IP (Immunoprecipitation), WB (Western Blot)
Application Notes	Applications are based on unconjugated antibody.
Immunogen	Partial recombinant corresponding to aa225-314 from human PITX1 (NP_002644) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MPSSMGPGAVPGMPNSGLNNINNLTGSSLNSAMSPGACPYGTPASPYSVYRDTCNSSLASLRLKSKQHSSFGYGGLQGPASGLNACQYN
Conjugate	Biotin
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

IMAGES

WB (Western Blot)
Western blot analysis of PITX1 over-expressed 293 cell line, cotransfected with PITX1 Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with PITX1 monoclonal antibody GAPDH (36.1kD) used as specificity and loading control.

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

IP (Immunoprecipitation)
Immunoprecipitation of PITX1 transfected lysate using PITX1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PITX1 rabbit polyclonal antibody.

WB (Western Blot)
Western Blot analysis of PITX1 expression in transfected 293T cell line by PITX1 monoclonal antibody Lane 1: PITX1 transfected lysate (34.1kD). Lane 2: Non-transfected lysate.

WB (Western Blot)
PITX1 monoclonal antibody Western Blot analysis of PITX1 expression in HeLa NE.

WB (Western Blot)
Western Blot detection against Immunogen (35.53kD).

ADDITIONAL INFORMATION

Related Product Information for anti-PITX1 antibody	PITX1 is 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.
Product Categories/Family for anti-PITX1 antibody	Antibodies; Transcription Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	152963644
NCBI GeneID	5307
NCBI Accession #	NP_002644
NCBI GenBank Nucleotide #	NM_002653
UniProt Accession #	P78337
Molecular Weight	34kDa
NCBI Official Full Name	pituitary homeobox 1
NCBI Official Synonym Full Names	paired like homeodomain 1
NCBI Official Symbol	PITX1
NCBI Official Synonym Symbols	BFT; CCF; POTX; PTX1; LBNBG
NCBI Protein Information	pituitary homeobox 1
UniProt Protein Name	Pituitary homeobox 1
UniProt Gene Name	**PITX1**
UniProt Synonym Gene Names	BFT; PTX1
UniProt Entry Name	PITX1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/pitx1-antibody-clone-5g4-immunoprecipitation-western-blot-elisa/24910