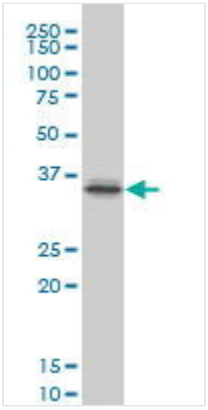
PITX1 Antibody – Mouse Monoclonal

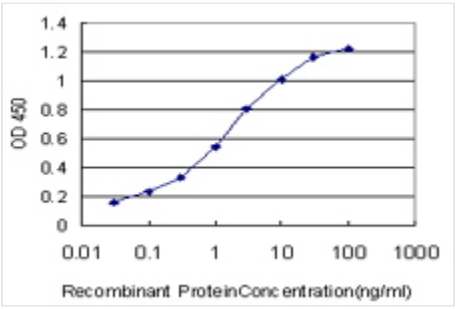
PRODUCT OVERVIEW

Product Name	PITX1, Monoclonal Antibody
Full Product Name	PITX1 (Paired-like Homeodomain 1, BFT, POTX, PTX1) (Biotin)
Product Gene Name	anti-PITX1 antibody
Product Synonym Names	Paired-like Homeodomain 1; BFT; POTX; PTX1
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	6D4
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified
Specificity	Recognizes PITX1.
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.
Molecular Weight	34kDa
OMIM	119800
3D Structure	ModBase 3D Structure for P78337
Immunogen	PITX1 (NP_002644, 225aa-313aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MPSSMGPGAVPGMPNSGLNNINNLTGSSLNSAMSPGACPYGTPASPYSVYRDTCNSSLASLRLKSKQHSSFGYGGLQGPASGLNACQYN
Conjugate	Biotin
Product Categories/Family for anti-PITX1 antibody	Antibodies; Transcription Factors; Homeobox (HOX)
Applications Tested/Suitable for anti-PITX1 antibody	Western Blot (WB)
Application Notes for anti-PITX1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PITX1 antibody	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 Notes	Small volumes of anti-PITX1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PITX1 purchase	MBS6171241 is an antibody targeting PITX1. Also known as PITX1 (Paired-like Homeodomain 1, BFT, POTX, PTX1) (Biotin). Host: Mouse.



Western Blot (WB) of anti-PITX1 antibody
PITX1 monoclonal antibody (M02), clone 6D4 Western Blot analysis of PITX1 expression in A-431.



Testing Data of anti-PITX1 antibody
Detection limit for recombinant GST tagged PITX1 is approximately 0.03ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PITX1. It may not necessarily be applicable to this product.

NCBI GI #	152963644
NCBI GeneID	5307
NCBI Accession #	NP_002644
UniProt Primary Accession #	P78337
UniProt Related Accession #	P78337
GenBank Nucleotide #	NM_002653
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
UniProt Protein Name	Pituitary homeobox 1
UniProt Synonym Protein Names	Hindlimb-expressed homeobox protein backfoot; Homeobox protein PITX1; Paired-like homeodomain transcription factor 1
Protein Family	Pituitary homeobox
UniProt Gene Name	PITX1
UniProt Synonym Gene Names	BFT; PTX1
UniProt Entry Name	PITX1_HUMAN
NCBI Protein Information	pituitary homeobox 1

UniProt Comments for PITX1	PITX1: May play a role in the development of anterior structures, and in particular, the brain and facies and in specifying the identity or structure of hindlimb. Defects in PITX1 are a cause of congenital clubfoot (CCF); also known as talipes equinovarus (TEV). Clubfoot is a congenital limb deformity defined as fixation of the foot in cavus, adductus, varus, and equinus (i.e. inclined inwards, axially rotated outwards, and pointing downwards) with concomitant soft tissue abnormalities. Clubfoot may occur in isolation or as part of a syndrome. Clubfoot appears to be a multifactorial trait. Belongs to the paired homeobox family. Bicoid subfamily. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 5q31.1 Cellular Component: transcription factor complex; cytoplasm; nucleolus; nucleus Biological Process: myoblast cell fate commitment; anatomical structure morphogenesis; transcription, DNA-dependent; pituitary gland development; cartilage development; branchiomeric skeletal muscle development; positive regulation of transcription from RNA polymerase II promoter; skeletal development; embryonic hindlimb morphogenesis Disease: Liebenberg Syndrome; Clubfoot, Congenital, With Or Without Deficiency Of Long Bones And/or Mirror-image Polydactyly
Research Articles on PITX1	**1.** PITX1 might serve as a potential biomarker for early detection and prognosis prediction of patients with lung adenocarcinoma.
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Online datasheet: https://www.mybiosource.com/monoclonal-antibody/pitx1/6171241