

Rabbit PITX3 Polyclonal Antibody | anti-PITX3 antibody

PITX3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327666	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

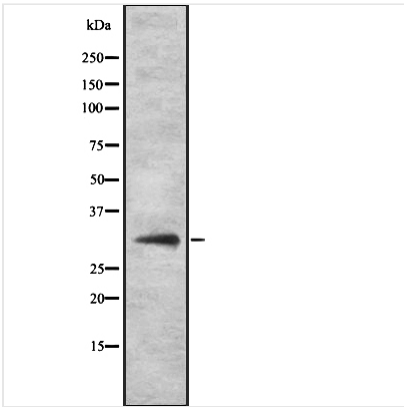
PRODUCT SYNONYMS

PITX3; Polyclonal Antibody; PITX3 Antibody; Homeobox protein PITX 3; Homeobox protein PITX3; MGC12766; Paired like homeodomain transcription factor 3; Paired-like homeodomain transcription factor 3; Pituitary homeobox 3; PITX 3; Pitx3; PITX3_HUMAN; PTX 3; PTX3; anti-PITX3 antibody

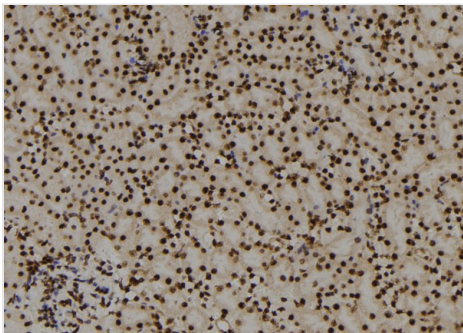
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PITX3 antibody detects endogenous levels of total PITX3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	302
Applicable Applications for anti-PITX3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PITX3
Subcellular Location	Nucleus.
Tissue Specificity	Highly expressed in developing eye lens.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (88%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of PITX3 using COS7 whole cell lysates



IHC (Immunohistochemistry)
AAA327666 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-PITX3 antibody	Function: Transcriptional regulator which is important for the differentiation and maintenance of meso-diencephalic dopaminergic (mdDA) neurons during development. In addition to its importance during development, it also has roles in the long-term survival and maintenance of the mdDA neurons. Activates NR4A2/NURR1-mediated transcription of genes such as SLC6A3, SLC18A2, TH and DRD2 which are essential for development of mdDA neurons. Acts by decreasing the interaction of NR4A2/NURR1 with the corepressor NCOR2/SMRT which acts through histone deacetylases (HDACs) to keep promoters of NR4A2/NURR1 target genes in a repressed deacetylated state. Essential for the normal lens development and differentiation. Plays a critical role in the maintenance of mitotic activity of lens epithelial cells, fiber cell differentiation and in the control of the temporal and spatial activation of fiber cell-specific crystallins. Positively regulates FOXE3 expression and negatively regulates PROX1 in the anterior lens epithelium, preventing activation of CDKN1B/P27Kip1 and CDKN1C/P57Kip2 and thus maintains lens epithelial cells in cell cycle (By similarity). Subunit Structure: Interacts with SFPQ. Similarity: Belongs to the paired homeobox family. Bicoid subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4826912
NCBI GeneID	5309
NCBI Accession #	NP_005020.1
NCBI GenBank Nucleotide #	NM_005029.3
UniProt Accession #	O75364; Q5VZL2
Molecular Weight	Observed: 32 kDa Predicted: 32 kDa
NCBI Official Full Name	pituitary homeobox 3
NCBI Official Synonym Full Names	paired like homeodomain 3
NCBI Official Symbol	PITX3
NCBI Official Synonym Symbols	ASMD; ASOD; PTX3; ASGD1; CTPP4; CTRCT11
NCBI Protein Information	pituitary homeobox 3
UniProt Protein Name	Pituitary homeobox 3
UniProt Gene Name	PITX3
UniProt Synonym Gene Names	PTX3

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/polyclonal/pitx3-antibody-immunohistochemistry-western-blot-elisa/327666>