

Rabbit PITX2 Polyclonal Antibody | anti-PITX2 antibody

PITX2 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287284	Rabbit	Human (Predicted Reactivity: Mouse, Rat, Zebrafish, Chicken, Xenopus)	Immunofluorescence, ELISA, Western Blot

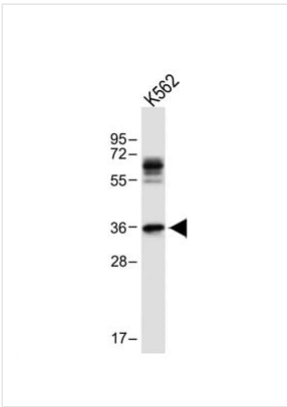
PRODUCT SYNONYMS

PITX2; Polyclonal Antibody; PITX2 Antibody (C-term); Pituitary homeobox 2; ALL1-responsive protein ARP1; Homeobox protein PITX2; Paired-like homeodomain transcription factor 2; RIEG bicoid-related homeobox transcription factor; Solurshin; ARP1; RGS; RIEG; RIEG1; anti-PITX2 antibody

PRODUCT SPECIFICATIONS

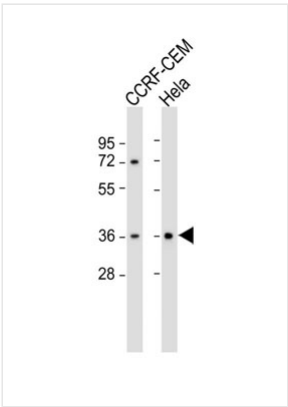
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Rat, Zebrafish, Chicken, Xenopus)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PITX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 122-151 amino acids of human PITX2.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	122-151
Sequence Length	271
Applicable Applications for anti-PITX2 antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
Function	Controls cell proliferation in a tissue-specific manner and is involved in morphogenesis. During embryonic development, exerts a role in the expansion of muscle progenitors. May play a role in the proper localization of asymmetric organs such as the heart and stomach. Isoform PTX2C is involved in left-right asymmetry the developing embryo (By similarity).
Cellular Location	Nucleus.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



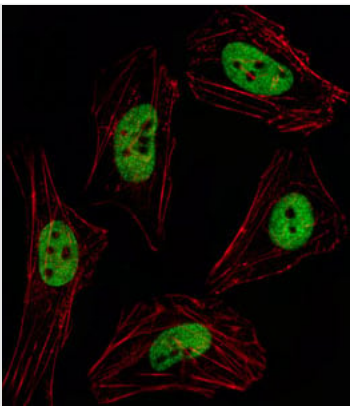
Application Data

Anti-Pilx2 (Human C-term) at 1:2000 dilution + K562 whole cell lysate Lysates/proteins at 20ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 35 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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IF (Immunofluorescence)

Fluorescent image of HeLa cell stained with PITX2 Antibody (C-term). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with PITX2 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree).PITX2 immunoreactivity is localized to Nucleus significantly.

ADDITIONAL INFORMATION

Related Product Information for anti-PITX2 antibody	Pilx2 is a member of the RIEG/PITX homeobox family, which is in the bicoid class of homeodomain proteins. This protein acts as a transcription factor and regulates procollagen lysyl hydroxylase gene expression. It plays a role in the terminal differentiation of somatotroph and lactotroph cell phenotypes, is involved in the development of the eye, tooth and abdominal organs, and acts as a transcriptional regulator involved in basal and hormone-regulated activity of prolactin. Mutations in this protein are associated with Axenfeld-Rieger syndrome, iridogoniodysgenesis syndrome, and sporadic cases of Peters anomaly. A similar protein in other vertebrates is involved in the determination of left-right asymmetry during development.
Product Categories/Family for anti-PITX2 antibody	Cardiovascular; Developmental Biology
References	Engenheiro,E., Clin. Genet. 72 (5), 464-470 (2007) Gudbjartsson,D.F., Nature 448 (7151), 353-357 (2007) Lowry,R.B., Am. J. Med. Genet. A 143 (11), 1227-1230 (2007)

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361183
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NCBI GeneID	5308
NCBI Accession #	NP_000316.2; NP_001191326.1; NP_001191327.1; NP_001191328.1; NP_700475.1; NP_700476.1
NCBI GenBank Nucleotide #	NM_000325.5
UniProt Accession #	Q99697; O60578; O60579; O60580; Q3KQX9; Q9BY17; A8K6C6; B2RA02; B3KXS0
NCBI Official Full Name	pituitary homeobox 2 isoform c
NCBI Official Synonym Full Names	paired-like homeodomain 2
NCBI Official Symbol	PITX2
NCBI Official Synonym Symbols	RS; RGS; ARP1; Brx1; IDG2; IGDS; IHG2; PTX2; RIEG; IGDS2; IRID2; Otlx2; RIEG1
NCBI Protein Information	pituitary homeobox 2
UniProt Protein Name	Pituitary homeobox 2
UniProt Gene Name	PITX2
UniProt Synonym Gene Names	ARP1; RGS; RIEG; RIEG1
UniProt Entry Name	PITX2_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/polyclonal/pitx2-antibody-immunofluorescence-western-blot-elisa/287284>