

Rabbit PITX2 Polyclonal Antibody | anti-PITX2 antibody

PITX2 antibody - N-terminal region

CATALOG # AAA197362	HOST Rabbit	REACTIVITY Horse, Human, Mouse	APPLICATIONS Western Blot
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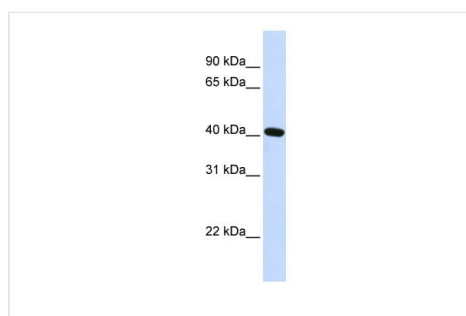
PRODUCT SYNONYMS

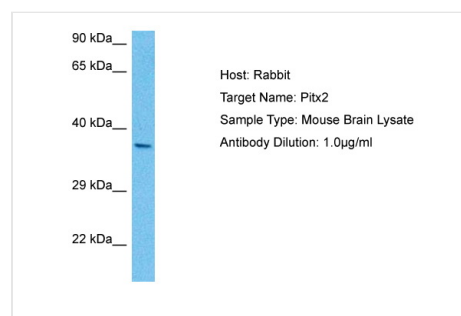
PITX2; Polyclonal Antibody; PITX2 antibody - N-terminal region; anti-PITX2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Horse, Human, Mouse
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: EF TDSPE SRKEA ASSKFFPRQH PGANEKDKSQ QGKNEDVGAE DPSKKKRQ
Sequence Length	317
Applicable Applications for anti-PITX2 antibody	WB (Western Blot)
Homology	Horse: 86%; Human: 100%; Mouse: 93%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human PITX2
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES


WB (Western Blot)

WB Suggested Anti-PITX2 Antibody Titration: 0.2-1 ug/ml
ELISA Titer: 1:31250
Positive Control: Human heart

WB (Western Blot)

Host: Mouse
Target Name: PITX2
Sample Tissue: Mouse Brain
Antibody Dilution: 1ug/ml

ADDITIONAL INFORMATION

Related Product Information for anti-PITX2 antibody	This is a rabbit polyclonal antibody against PITX2. It was validated on Western Blot using a cell lysate as a positive control. Target Description: The PITX2 gene encodes 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. Mutations in PITX2 are associated with Axenfeld-Rieger syndrome (ARS), iridogoniodysgenesis syndrome (IGDS), and sporadic cases of Peters anomaly. This protein is involved in the development of the eye, tooth and abdominal organs. It also acts as a transcriptional regulator involved in basal and hormone-regulated activity of prolactin. This gene encodes a member of the RIEG/PITX homeobox family, which is in the bicoid class of homeodomain proteins. The encoded protein acts as a transcription factor and regulates procollagen lysyl hydroxylase gene expression. This protein 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 gene 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. Alternatively spliced transcript variants encoding distinct isoforms have been described.
Product Categories/Family for anti-PITX2 antibody	Polyclonal; Transcription Factor; Transcription Regulation; Transcription Regulation; Developmental Biology; Neuroscience; Disease Related; Transcription Factors; Cell Differentiation

NCBI AND UNIPROT INFORMATION

NCBI GI #	24234708
NCBI GeneID	5308
NCBI Accession #	NP_700475
NCBI GenBank Nucleotide #	NM_153426
UniProt Accession #	Q99697
Molecular Weight	35kDa
NCBI Official Full Name	pituitary homeobox 2 isoform b
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; ASGD4; 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.