



Anti-PITX2 (full length) polyclonal antibody (DPAB-DC2257)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	PITX2 (AAH13998, 1 a.a. ~ 324 a.a) full-length recombinant protein with GST tag. The sequence is MNCMKGPLHLEHRAAGTKLSAVSSSSCHHPQPLAMASVLAPGQPRSLDSSKHRLEVHTIS DTSSPEAAEKDKSQQGKNEDVGAEDPSKKKRQRRQRTHFTSQQLQELEATFQRNRYPDMS TREEIAVWTNLTEARVRVWFKNRAKWRKRERNQQAEELCKNGFGPQFNGLMQPYDDMYPG YSYNNWAAKGLTSASLSTKSFNFNSMVNPPLSSQSMFSPPNSISSLSSMSSMVPASVTG VPGSSLNSLNNLNNLSSPSLNSAVPTPACPYAPPTPPYVYRDTCNSSLASLRLKAKQHSS FGYASVQNPASNLSACQYAVDRPV
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl

Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PITX2 paired-like homeodomain 2 [Homo sapiens (human)]
Official Symbol	PITX2
Synonyms	PITX2; paired-like homeodomain 2; RS; RGS; ARP1; Brx1; IDG2; IGDS; IHG2; PTX2; RIEG; IGDS2; IRID2; Otlx2; RIEG1; pituitary homeobox 2; solurshin; all1-responsive gene 1; homeobox protein PITX2; ALL1-responsive protein ARP1; paired-like homeodomain transcription factor 2; rieg bicoid-related homeobox transcription factor 1;
Entrez Gene ID	5308
Protein Refseq	NP_000316
UniProt ID	Q99697
Chromosome Location	4q25
Pathway	Heart Development; Regulation of Wnt-mediated beta catenin signaling and target gene transcription;
Function	RNA polymerase II activating transcription factor binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved