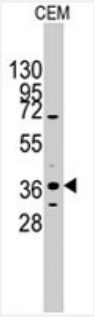
PITX2 polyclonal antibody

Catalog # PAB3073 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of PITX2 polyclonal antibody (Cat # PAB3073) in CEM cell line lysates (35 ug/lane). PITX2 (arrow) was detected using the purified polyclonal antibody.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PITX2.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human PITX2.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — PITX2

Entrez GeneID	5308
Protein Accession#	NP_000316;Q99697
Gene Name	PITX2
Gene Alias	ARP1, Brx1, IDG2, IGDS, IGDS2, IHG2, IRID2, MGC111022, MGC20144, Otlx2, PTX2, RGS, RIEG, RIEG1, RS
Gene Description	paired-like homeodomain 2
Omim ID	137600 180500 180550 601542
Gene Ontology	Hyperlink
Gene Summary	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, iridogonidysgenesis 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. [provided by RefSeq
Other Designations	OTTHUMP00000163736|all1-responsive gene 1|paired-like homeodomain transcription factor 2|pituitary homeo box 2|rieg bicoid-related homeobox transcription factor 1|solurshin

Publication Reference

- Cytogenetically invisible microdeletions involving PITX2 in Rieger syndrome.

  Engenheiro E, Saraiva J, Carreira I, Ramos L, Ropers HH, Silva E, Tommerup N, Tumer Z.

  Clinical Genetics 2007 Nov; 72(5):464.

- Variants conferring risk of atrial fibrillation on chromosome 4q25.

  Gudbjartsson DF, Arnar DO, Helgadottir A, Gretarsdottir S, Holm H, Sigurdsson A, Jonasdottir A, Baker A, Thorleifsson G, Kristjansson K, Palsson A, Blondal T, Sulem P, Backman VM, Hardarson GA, Palsdottir E, Helgason A, Sigurjonsdottir R, Sverrisson JT, Kostulas K, Ng MC, Baum L, So WY, Wong KS, Chan JC, Furie KL, Greenberg SM, Sale M, Kelly P, MacRae CA, Smith EE, Rosand J, Hillert J, Ma RC, Ellinor PT, Thorgeirsson G, Gulcher JR, Kong A, Thorsteinsdottir U, Stefansson K.

  Nature 2007 Jul; 448(7151):353.

- Absence of PITX2, BARX1, and FOXC1 mutations in De Hauwere syndrome (Axenfeld-Rieger anomaly, hydrocephaly, hearing loss): a 25-year follow up.

  Lowry RB, Gould DB, Walter MA, Savage PR.

  American Journal of Medical Genetics. Part A 2007 Jun; 143A(11):1227.

Pathway

- TGF-beta signaling pathway

Disease

- Alcoholism
- Atrial Fibrillation
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Glaucoma
- Recurrence