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PITX2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14021a

Specification

PITX2 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q99697
Other Accession	NP_700476.1, NP_700475.1, NP_000316.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**35370**
Antigen Region	**42-71**

PITX2 Antibody (N-term) - Additional Information

Gene ID 5308

Other Names
Pituitary homeobox 2, ALL1-responsive protein ARP1, Homeobox protein PITX2, Paired-like homeodomain transcription factor 2, RIEG bicoid-related homeobox transcription factor, Solurshin, PITX2, ARP1, RGS, RIEG, RIEG1

Target/Specificity
This PITX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 42-71 amino acids from the N-terminal region of human PITX2.

Dilution
WB~~1:1000

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.

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.

Precautions
PITX2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PITX2 Antibody (N-term) - Protein Information

Name PITX2 (HGNC:9005)

Synonyms ARP1, RGS, RIEG, RIEG1

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).

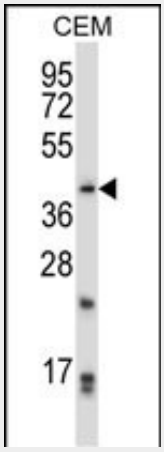
Cellular Location
Nucleus.

PITX2 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PITX2 Antibody (N-term) - Images



PITX2 Antibody (N-term) (Cat. #AP14021a) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the PITX2 antibody detected the PITX2 protein (arrow).

PITX2 Antibody (N-term) - Background

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.

PITX2 Antibody (N-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
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Kalsi, G., et al. Hum. Mol. Genet. 19(12):2497-2506(2010)
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