

PITX2 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10059**Specification****PITX2 antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	O99697
Other Accession	O99697 , NP_700475 , NM_153426
Reactivity	Human, Mouse, Guinea Pig, Horse
Predicted	Human, Mouse, Rat, Dog, Guinea Pig, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35 kDa KDa

PITX2 antibody - N-terminal region - Additional Information**Gene ID 5308**

Alias Symbol	ARP1, Brx1, IDG2, IGDS, IGDS2, IHG2, IRID2, MGC111022, MGC20144, Otlx2, PTX2, RGS, RIEG, RIEG1, RS
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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

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.

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-PITX2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.

Precautions

PITX2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

PITX2 antibody - N-terminal region - Protein Information

Name PITX2 ([HGNC:9005](#))

Function

May play a role in myoblast differentiation. When unphosphorylated, associates with an ELAVL1-containing complex, which stabilizes cyclin mRNA and ensuring cell proliferation. Phosphorylation by AKT2 impairs this association, leading to CCND1 mRNA destabilization and progression towards differentiation.

Cellular Location

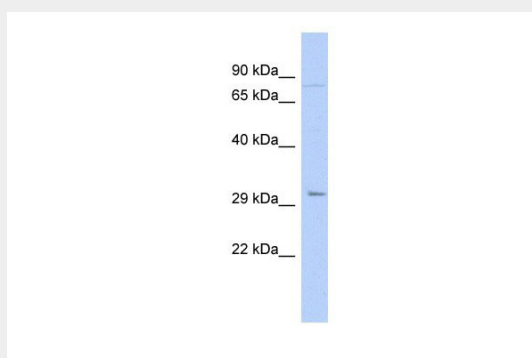
Nucleus. Cytoplasm {ECO:0000250|UniProtKB:P97474}

PITX2 antibody - N-terminal region - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PITX2 antibody - N-terminal region - Images



PITX2 antibody - N-terminal region (AI10059) in Human COLO205 cells using Western Blot
WB Suggested Anti-PITX2 Antibody Titration: 0.2-1 µg/ml

ELISA Titer: 1:62500

Positive Control: COLO205 cell lysate

PITX2 is supported by BioGPS gene expression data to be expressed in COLO205

PITX2 antibody - N-terminal region - Background

This is a rabbit polyclonal antibody against PITX2. It was validated on Western Blot using a cell lysate as a positive control. Abgent strives to provide antibodies covering each member of a whole protein family of your interest. We also use our best efforts to provide you antibodies recognize various epitopes of a target protein. For availability of antibody needed for your experiment, please inquire (sales@abgent.com).