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# Datasheet for ABIN3032141 anti-PITX2 antibody (AA 122-151)

3 Images



### Overview

Quantity:	0.4 mL
Target:	PITX2
Binding Specificity:	AA 122-151
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PITX2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

## Product Details

Immunogen:	A portion of amino acids 122-151 from the human protein was used as the immunogen for this PITX2 antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse, Rat, Chicken, Zebrafish, Xenopus
Purification:	Antigen affinity purified

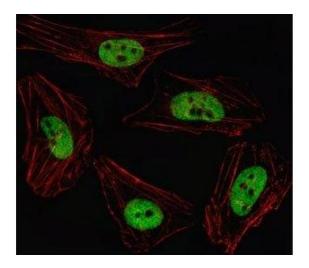
## Target Details

Target:	PITX2
Alternative Name:	PITX2 (PITX2 Products)
Background:	Pilx2 is a member of the RIEG/PITX homeobox family, which is in the bicoid class of

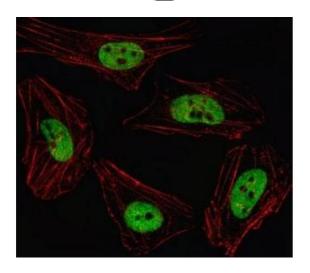
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## Target Details

	homeodomain proteins. This protein acts as a transcription factor and regulates procollagen lysyl hydroxylase gene expression. It 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 protein 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.
UniProt:	Q99697
Pathways:	Retinoic Acid Receptor Signaling Pathway, Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development
Application Details	
Application Notes:	Titration of the PITX2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Immunofluorescence: 1:10-1:50,Western blot: 1:1000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the PITX2 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



## 130 72 55 36 ■ ◀ 28



#### Immunofluorescence

**Image 1.** Fluorescent image of HeLa cell stained with PITX2 antibody. Alexa Fluor 488 conjugated secondary (green) was used. Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin. PITX2 immunoreactivity is localized to the nucleus.

#### Western Blotting

**Image 2.** Western blot analysis of PITX2 antibody and CEM lysate. Predicted molecular weight ~35 kDa.

#### Immunofluorescence

**Image 3.** Fluorescent image of HeLa cell stained with PITX2 antibody. Alexa Fluor 488 conjugated secondary (green) was used. Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin. PITX2 immunoreactivity is localized to the nucleus.

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