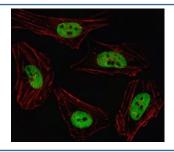


# PITX2 Antibody (F43713)

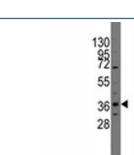
Catalog No.	Formulation	Size
F43713-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F43713-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

# **Bulk quote request**

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat, Chicken, Zebrafish, Xenopus
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q99697
Applications	Immunofluorescence : 1:10-1:50 Western Blot : 1:1000
Limitations	This PITX2 antibody is available for research use only.



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 blot analysis of PITX2 antibody and CEM lysate. Predicted molecular weight ~35 kDa.

## **Description**

Pilx2 is 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. 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.

# **Application Notes**

Titration of the PITX2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## **Immunogen**

A portion of amino acids 122-151 from the human protein was used as the immunogen for this PITX2 antibody.

#### **Storage**

Aliquot the PITX2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.