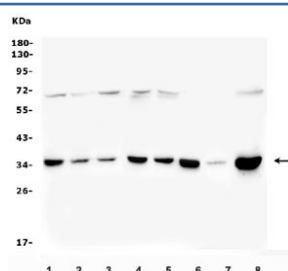


## PITX2 Antibody (RQ5602)

Catalog No.	Formulation	Size
RQ5602	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	Q99697
<b>Applications</b>	Western Blot : 0.25-0.5ug/ml
<b>Limitations</b>	This PITX2 antibody is available for research use only.



Western blot testing of human 1) Caco-2, 2) HEK293, 3) U-2 OS, 4) HeLa, 5) A549, 6) U-87 MG, 7) rat heart and 8) mouse RAW264.7 lysate with PITX2 antibody. Predicted molecular weight ~35 kDa.

## Description

Paired-like homeodomain transcription factor 2 also known as pituitary homeobox 2 is a protein that in humans is encoded by the PITX2 gene. It is mapped to 4q25. 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.

## Application Notes

Optimal dilution of the PITX2 antibody should be determined by the researcher.

## Immunogen

Amino acids METNCRKLVSA CVQLGVQPAAVECLFSKDSEIKK were used as the immunogen for the PITX2 antibody.

## Storage

After reconstitution, the PITX2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.