

PITX3 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI11427**Specification**

PITX3 antibody - N-terminal region - Product Information

Application	WB
Primary Accession	O75364
Other Accession	NM_005029 , NP_005020
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Sheep, Horse, Bovine, Dog
Predicted Host	Human, Mouse, Rat, Rabbit, Pig, Dog
Clonality	Rabbit
Calculated MW	Polyclonal 32kDa KDa

PITX3 antibody - N-terminal region - Additional Information**Gene ID** 5309**Alias Symbol** PTX3, CTPP4**Other Names**

Pituitary homeobox 3, Homeobox protein PITX3, Paired-like homeodomain transcription factor 3, PITX3, PTX3

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-PITX3 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

PITX3 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

PITX3 antibody - N-terminal region - Protein Information**Name** PITX3**Synonyms** PTX3**Function**

Transcriptional regulator which is important for the differentiation and maintenance of meso-diencephalic dopaminergic (mdDA) neurons during development. In addition to its importance during development, it also has roles in the long-term survival and maintenance of the mdDA neurons. Activates NR4A2/NURR1-mediated transcription of genes such as SLC6A3, SLC18A2, TH and DRD2 which are essential for development of mdDA neurons. Acts by decreasing

the interaction of NR4A2/NURR1 with the corepressor NCOR2/SMRT which acts through histone deacetylases (HDACs) to keep promoters of NR4A2/NURR1 target genes in a repressed deacetylated state. Essential for the normal lens development and differentiation. Plays a critical role in the maintenance of mitotic activity of lens epithelial cells, fiber cell differentiation and in the control of the temporal and spatial activation of fiber cell-specific crystallins. Positively regulates FOXE3 expression and negatively regulates PROX1 in the anterior lens epithelium, preventing activation of CDKN1B/P27Kip1 and CDKN1C/P57Kip2 and thus maintains lens epithelial cells in cell cycle (By similarity).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000255|PROSITE-ProRule:PRU00138}

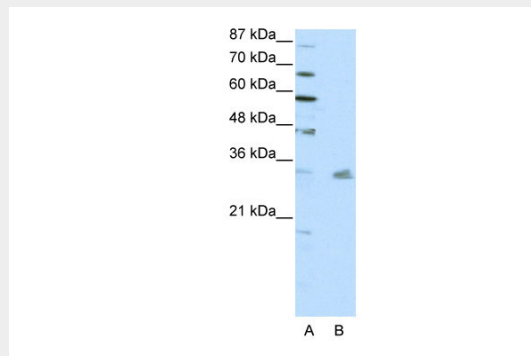
Tissue Location

Highly expressed in developing eye lens.

PITX3 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](#)

PITX3 antibody - N-terminal region - Images

WB Suggested Anti-PITX3 Antibody Titration: 0.2-1 µg/ml

ELISA Titer: 1:1562500

Positive Control: HepG2 cell lysate

PITX3 antibody - N-terminal region - References

Bidinost,C., et al., (2006) Invest. Ophthalmol. Vis. Sci. 47 (4), 1274-1280
Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.