

Datasheet for ABIN5713730

PITX3 Protein (AA 1-302, full length) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	PITX3
Protein Characteristics:	AA 1-302, full length
Origin:	Mouse
Source:	Yeast
Protein Type:	Recombinant
Purification tag / Conjugate:	This PITX3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MEFGLLGEAE ARSPALSLSD AGTPHPPLPE HGCKGQEHSD SEKASASLPG GSPEDGSLKK KQRRQRTHFT SSQLQLEAT FQRNRYPDMS TREEIAVWTN LTEARVRVWF KNRRAKWRKR ERSQQAELCK GGFAAPLGG VPPYEEVYPG YSYGNWPPKA LAPPLAAKTF PFAFNSVNVG PLASQPVFSP PSSIAASMVP SAAAAPGTVP GPGALQGLGG APPGLAPAAV SSGAVSCPYA SAAAAAAAAA SSPYVYRDPC NSSLASLRK AKQHASFSTP AVPGPPPAAN LSPCQYAVR PV
Purification:	SDS-PAGE
Purity:	> 90 %

Target Details

Target:	PITX3
Alternative Name:	PITX3 (PITX3 Products)

Target Details

Background: 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.

Molecular Weight: 33.7 kDa

UniProt: [O35160](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.1-2 mg/mL

Buffer: 20 mM Tris-HCl based buffer, pH 8.0

Storage: -80 °C, 4 °C, -20 °C

Storage Comment: Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.



SDS-PAGE

Image 1.