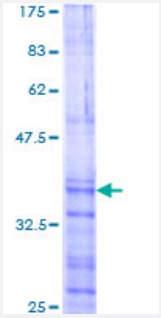
PITX2 (Human) Recombinant Protein (Q01)

Catalog # H00005308-Q01 Size 10 ug, 25 ug

Applications



Specification

Product Description	Human PITX2 partial ORF (NP_700476, 60 a.a. - 159 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	RNRYPDMSTREEIAVWTNLTEARVRVWFKNRRAKWRKRERNQQAELCKNGFGPQFNGLMQPYD DMYPGYSYNNWAAKGLTSASLSTKSFPFFNSMNVNPL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PITX2

Entrez GeneID	5308
GeneBank Accession#	NM_153427
Protein Accession#	NP_700476
Gene Name	PITX2
Gene Alias	ARP1, Brx1, IDG2, IGDS, IGDS2, IHG2, IRID2, MGC111022, MGC20144, Otlx2, PTX2, RGS, RIEG, RIEG1, RS
Gene Description	paired-like homeodomain 2
Omim ID	137600 180500 180550 601542
Gene Ontology	Hyperlink
Gene Summary	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, iridogonodysgenesis 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. [provided by RefSeq
Other Designations	OTTHUMP00000163736|all1-responsive gene 1|paired-like homeodomain transcription factor 2|pituitary homeo box 2|rieg bicoid-related homeobox transcription factor 1|solurshin

Pathway

- TGF-beta signaling pathway

Disease

- Alcoholism
- Atrial Fibrillation
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Glaucoma
- Recurrence