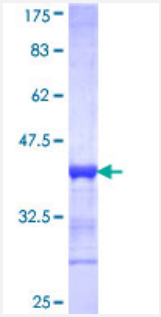
PAX4 (Human) Recombinant Protein (Q01)

Catalog # H00005078-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PAX4 partial ORF (NP_006184, 121 a.a. - 217 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	RALQEDQGLPCTRLRSPAVLAPAVLTPHSGSETPRGTHPGTGHRNRTIFSPSQAEALEKEFQRG QYPDSVARGKLATATSLPEDTVRVWFSNRRAKW
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.41
Interspecies Antigen Sequence	Mouse (84); Rat (85)
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 — PAX4

Entrez GeneID	5078
GeneBank Accession#	NM_006193
Protein Accession#	NP_006184
Gene Name	PAX4
Gene Alias	KPD, MGC129960, MODY9
Gene Description	paired box 4
Omim ID	167413
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the paired box (PAX) family of transcription factors. Members of this ge ne family typically contain a paired box domain, an octapeptide, and a paired-type homeodomain. These genes play critical roles during fetal development and cancer growth. The paired box 4 gen e is involved in pancreatic islet development and mouse studies have demonstrated a role for this gene in differentiation of insulin-producing beta cells. [provided by RefSeq
Other Designations	paired box gene 4|paired domain gene 4

Pathway

- Maturity onset diabetes of the young

Disease

- Diabetes Mellitus
- Genetic Predisposition to Disease
- Insulin Resistance
- Kidney Failure
- Metabolic Syndrome X
- Renal Insufficiency
- Werner syndrome