Recombinant Human PAX4

Cat. No. PAX4-29532TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 121-217 of Human PAX4 isoform 3 with an N terminal proprietary tag; Predicted MWt 36.3 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	97 amino acids
Description	This gene is a member of the paired box (PAX) family of transcription factors. Members of this gene 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 gene is involved in pancreatic islet development and mouse studies have demonstrated a role for this gene in differentiation of insulin-producing beta cells.
Molecular Weight	36.300kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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	cycles.
Sequences of amino acids	RALQEDQGLPCTRLRSPAVLAPAVLTPHSGSETPRGTHPGTGHRNRTIFSPSQAEA LEKEFQRGQYPDSVARGKLATATSLPEDTVRVWFSNRRAKW
Sequence Similarities	Belongs to the paired homeobox family.Contains 1 homeobox DNA-binding domain.Contains 1 paired domain.

GENE INFORMATION

Gene Name	PAX4 paired box 4 [Homo sapiens]
Official Symbol	PAX4
Synonyms	PAX4; paired box 4; paired box gene 4; paired box protein Pax-4; MODY9;
Gene ID	5078
mRNA Refseq	NM_006193
Protein Refseq	NP_006184
MIM	167413
Uniprot ID	O43316
Chromosome Location	7q32.1
Pathway	Developmental Biology, organism-specific biosystem; Maturity onset diabetes of the young, organism-specific biosystem; Maturity onset diabetes of the young, conserved biosystem; Regulation of beta-cell development, organism-specific biosystem;

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	Regulation of gene expression in endocrine-committed (NEUROG3+) progenitor cells, organism-specific biosystem;
Function	DNA binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;

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