Recombinant Human PAX6

Cat. No. PAX6-130H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Pax6 fragment (AA 1-209) was expressed in E. coli and purified using IMAC column purification.
Species	Human
Source	E.coli
ProteinLength	1-209 a.a.
Description	Pax6 is the best described member of the paired box (Pax) family of genes encoding tissue-specific transcription factors. The Pax6 protein contains paired box and homeobox domains with DNA-binding activities, and a Pro/Ser/Thr-rich C-terminal domain with transactivation function. Pax6 is a transcription regulator important in the development of the eyes and other sensory organs, the nervous system, and other homologous tissues derived from the ectoderm. Pancreatic development also depends on Pax6, and Pax6 is used as a marker for pancreatic endoderm when inducing differentiation of stem cells.
Form	500 g/ml (determined by A280) in hs-PBS (1.5 mM KH2PO4, 8.1 mM Na2HPO4, 500 mM NaCl, 2.7 mM KCl, pH 7.4)Preservative: none
Molecular Mass	22.8 kDa (AA 1-209).
Purity	>90% by SDS-PAGE

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Storage	Store at -80 °C. Avoid multiple freeze-thaws.

GENE INFORMATION

Gene Name	PAX6 paired box 6 [Homo sapiens]
Official Symbol	PAX6
Synonyms	PAX6; paired box 6; AN2, paired box gene 6 (aniridia, keratitis); paired box protein Pax-6; AN; aniridia; keratitis; D11S812E; WAGR; oculorhombin; aniridia type II protein; paired box homeotic gene-6; AN2; MGDA; MGC17209;
Gene ID	5080
mRNA Refseq	NM_000280
Protein Refseq	NP_000271
MIM	607108
UniProt ID	P26367
Chromosome Location	11p13
Pathway	CDC42 signaling events, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Incretin Synthesis, Secretion, and Inactivation, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Maturity onset diabetes of the young, organism-specific biosystem; Maturity onset diabetes of the young, conserved biosystem; Metabolism, organism-specific biosystem;

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Function	DNA binding; R-SMAD binding; RNA polymerase II core promoter sequence-specific DNA binding; histone acetyltransferase binding; protein binding; protein kinase binding; sequence-specific DNA binding; sequence-specific DNA binding RNA polymerase II transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription factor binding; ubiquitin-protein ligase activity;

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