

CA1031	Pax6	
	Recombinant Protein (AA 1-209)	
	Prod. No. S2114-20UG	
	<i>For Research Use Only</i> <i>Not intended for use in humans or animals</i>	
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Source	Human
Tested Applications	SDS-PAGE, WB, ELISA
Sequence	Amino acids 1-209
Epitope tag(s)	none

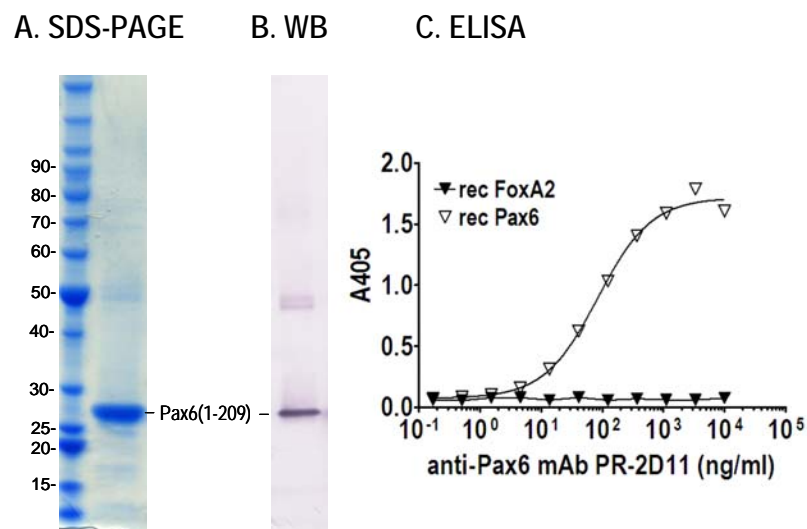
Size: 20 µg
Description: Recombinant human Pax6 fragment (AA 1-209)
Expression: Expressed in <i>E. coli</i> and purified using IMAC column purification.
Formulation: 500 µg/ml (determined by A280) in hs-PBS (1.5 mM KH ₂ PO ₄ , 8.1 mM Na ₂ HPO ₄ , 500 mM NaCl, 2.7 mM KCl, pH 7.4) Preservative: none
Purity: >90% by SDS-PAGE
Storage: Store at -80 °C. Avoid multiple freeze-thaws.
Alternative Names: Paired box protein Pax-6; AN2; Oculorhombin; Aniridia type II protein
Size: 22.8 kDa (AA 1-209). Full length Pax6 = 46.7 kDa (AA 1-422)
Database Links: RefSeq Protein NP_000271.1 RefSeq Gene NM_000280.2 UniProt P26367

Background: 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.

Applications:

- (A) Pax6 recombinant protein (aa 1-209) (5 µg) was resolved by SDS-PAGE and stained with Coomassie dye. Pax6 has been shown to run at an apparent molecular weight higher than predicted.
- (B) Western blot detection of Pax6 recombinant protein (aa 1-209) (50 ng) using 1 µg/ml anti-Pax6 monoclonal antibody (PR-1G2).
- (C) Indirect ELISA detection of immobilized Pax6 recombinant protein (aa 1-209) with titrated amounts of Pax6 mAb (PR-2D11).

Note: Representative data are shown (not Lot-specific).



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