

CA1015

## Pax6 Monoclonal Antibody (PR-2D11)

**Prod. No. S2078-100UG**
*For Research Use Only  
Not intended for use in humans or animals*


Orders	866 372-7442
& Support	support@primorigen.com
Web	www.primorigen.com

Reacts with	Human*
Tested Applications	WB, ELISA
Host	Mouse
Clone	PR-2D11
Isotype	IgG1, $\kappa$

*\*Other species not tested*
**Size:** 100  $\mu$ g

**Immunogen:** Recombinant human Pax6 (aa1-209) expressed in *E. coli*.

**Purification:** Protein G chromatography

**Formulation:** 1 mg/ml in PBS  
Preservative: 0.09% NaN<sub>3</sub>
**Storage:** Store at 4°C (<3 months) or -20°C.  
Avoid multiple freeze-thaws.

**Recommended Uses:**

Western Blot	1:1000
ELISA (detect)	1:1000

Note: Optimal concentrations should be empirically determined.

**Target Alternative Names:** paired box gene 6;  
paired box homeotic gene-6; paired box 6; AN2

**Target Size:** 423 AA; 46.7 kDa

**Target Database Links:**

RefSeq Protein	NP_000271.1
RefSeq Gene	NM_000280.2
UniProt	P26367

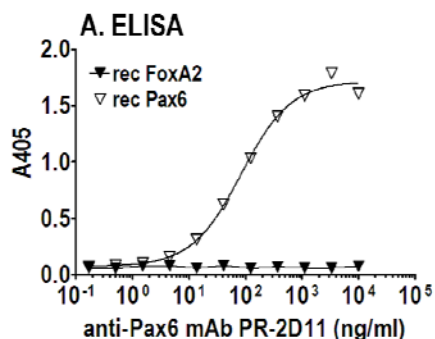
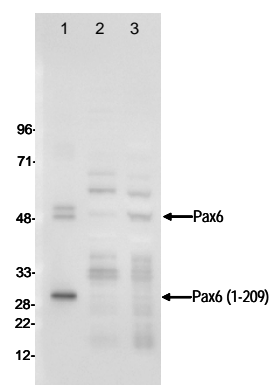
**Background:** Pax6 is the best described member of the paired box (Pax) family of genes encoding tissue-specific transcription factors. The Pax6 protein contains paired box and homeobox domains with DNA-binding activities, and a Pro/Ser/Thr-rich C-terminal domain with transactivation function. Pax6 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)** Indirect ELISA detection of immobilized Pax6 immunogen with titrated amounts of Pax6 monoclonal antibody (PR-2D11). No binding is seen to irrelevant recombinant protein FoxA2.

**(B)** Western blot detection of Pax6 using 1.0  $\mu$ g/ml Pax6 mAb (PR-2D11): (1) 200 ng Pax6 (aa 1-209) recombinant protein, (2) 20  $\mu$ g untransfected HEK-293 cell lysate, and (3) 20  $\mu$ g HEK-293-Pax6 transfectant cell lysate.

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


**B. Western blot**


**Warranty:** Each Lot has been verified to meet quality specifications in accordance with testing guidelines. We will replace the product if it does not conform to specifications. Product guaranteed for 6 months from date of purchase if stored as directed. This product must not be resold without written permission from Primorigen Biosciences.

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