

# PAX6 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP20979a

#### **Product Information**

Application WB, E Primary Accession P26367

**Reactivity** Human, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB51294
Calculated MW 46683

## **Additional Information**

Gene ID 5080

Other Names Paired box protein Pax-6, Aniridia type II protein, Oculorhombin, PAX6, AN2

**Target/Specificity** This PAX6 antibody is generated from a rabbit immunized with a KLH

conjugated synthetic peptide between 183-214 amino acids from the Central

region of human PAX6.

**Dilution** WB~~1:1000 E~~Use at an assay dependent concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** PAX6 Antibody (Center) is for research use only and not for use in diagnostic

or therapeutic procedures.

#### **Protein Information**

Name PAX6

Synonyms AN2

**Function** Transcription factor with important functions in the development of the eye,

nose, central nervous system and pancreas. Required for the differentiation of pancreatic islet alpha cells (By similarity). Competes with PAX4 in binding to a common element in the glucagon, insulin and somatostatin promoters.

Regulates specification of the ventral neuron subtypes by establishing the correct progenitor domains (By similarity). Acts as a transcriptional repressor of NFATC1- mediated gene expression (By similarity).

Cellular Location Nucleus {ECO:0000250|UniProtKB:P63015}. [Isoform 5a]: Nucleus

{ECO:0000250|UniProtKB:P63016}

**Tissue Location** [Isoform 1]: Expressed in lymphoblasts.

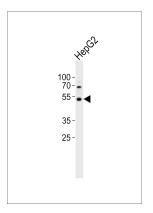
# **Background**

Transcription factor with important functions in the development of the eye, nose, central nervous system and pancreas. Required for the differentiation of pancreatic islet alpha cells (By similarity). Competes with PAX4 in binding to a common element in the glucagon, insulin and somatostatin promoters. Regulates specification of the ventral neuron subtypes by establishing the correct progenitor domains (By similarity). Isoform 5a appears to function as a molecular switch that specifies target genes.

## References

Ton C.C.T.,et al.Cell 67:1059-1074(1991). Glaser T.,et al.Nat. Genet. 2:232-239(1992). Liu J.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases. Bechtel S.,et al.BMC Genomics 8:399-399(2007). Taylor T.D.,et al.Nature 440:497-500(2006).

## **Images**



Western blot analysis of lysate from HepG2 cell line, using PAX6 Antibody (Center)(Cat. #AP20979a). AP20979a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.