

Rabbit anti-Human PAX6 Polyclonal Antibody | anti-PAX6 antibody

PAX6 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290290	Rabbit	Human	Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

PAX6; Polyclonal Antibody; PAX6 Antibody; Paired box protein Pax-6; Aniridia type II protein; Oculorhombin; AN2; anti-PAX6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PAX6 antibody is generated from rabbits immunized with a recombinant protein from human PAX6.
Form/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.
Sequence Length	—
Applicable Applications for anti-PAX6 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
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 alphacells (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.
Cellular Location	Nucleus
Tissue Location	Fetal eye, brain, spinal cord and olfactory epithelium. Isoform 5a is less abundant than the PAX6 shorter form
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Confocal immunofluorescent analysis of PAX6 Antibody with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).



IHC (Immunohistochemistry)

PAX6 Antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of PAX6 Antibody for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)

Western blot analysis of PAX6 (arrow) using rabbit polyclonal PAX6 Antibody. 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PAX6 gene.

ADDITIONAL INFORMATION

Related Product Information for anti-PAX6 antibody	This gene encodes paired box gene 6, one of many human homologs of the Drosophila melanogaster gene prd. In addition to the hallmark feature of this gene family, a conserved paired box domain, the encoded protein also contains a homeo box domain. Both domains are known to bind DNA, and function as regulators of gene transcription. This gene is expressed in the developing nervous system, and in developing eyes. Mutations in this gene are known to cause ocular disorders such as aniridia and Peter's anomaly. Alternatively spliced transcript variants encoding either the same or different isoform have been found for this gene. [provided by RefSeq].
Product Categories/Family for anti-PAX6 antibody	Developmental biology ; Neuroscience ; Signal transduction
References	Gosmain, Y., et al. J. Biol. Chem. 285(43):33381-33393(2010) Vuzman, D., et al. Biophys. J. 99(4):1202-1211(2010) Zhang, X., et al. Cell Stem Cell 7(1):90-100(2010) Bremond-Gignac, D., et al. Mol. Vis. 16, 1705-1711 (2010) : Cai, F., et al. Mol. Vis. 16, 1141-1145 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505615
NCBI GeneID	5080
NCBI Accession #	NP_000271.1 ; NP_001121084.1 ; NP_001245393.1 ; NP_001245394.1 ; NP_001595.2
NCBI GenBank Nucleotide #	NM_000280.4
UniProt Accession #	P26367 ; Q6N006 ; Q99413
Molecular Weight	46683
NCBI Official Full Name	paired box protein Pax-6 isoform a
NCBI Official Synonym Full Names	paired box 6
NCBI Official Symbol	PAX6
NCBI Official Synonym Symbols	AN; AN2; FVH1; MGDA; WAGR; D11S812E
NCBI Protein Information	paired box protein Pax-6
UniProt Protein Name	Paired box protein Pax-6
UniProt Gene Name	PAX6
UniProt Synonym Gene Names	AN2
UniProt Entry Name	PAX6_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pax6-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/290290>