

Rabbit PAX6 Polyclonal Antibody | anti-PAX6 antibody

PAX6 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327219	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

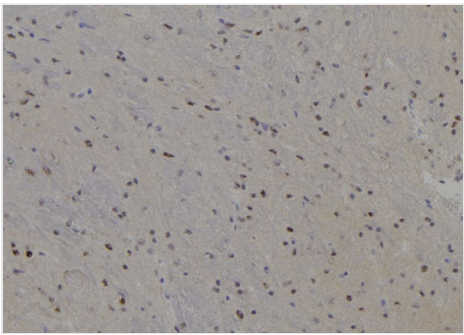
PRODUCT SYNONYMS

PAX6; Polyclonal Antibody; PAX6 Antibody; AN 2; AN; AN2; Aniridia type II protein; D11S812E; FVH1; KIAA0552; Leucine zipper putative tumor suppressor 3; LZTS3; MGC17209; MGDA; Oculorhombin; Paired box 6; Paired box gene 6 (aniridia keratitis); Paired Box Gene 6; Paired box homeotic gene 6; Paired box protein Pax-6; Paired box protein Pax6; PAX 6; PAX6_HUMAN; ProSAP-interacting protein 1; PROSAPIP1; Sey; WAGR; anti-PAX6 antibody

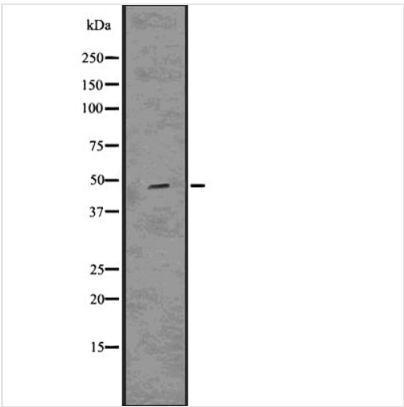
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PAX6 antibody detects endogenous levels of total PAX6
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	422
Applicable Applications for anti-PAX6 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PAX6
Subcellular Location	Nucleus.
Tissue Specificity	Fetal eye, brain, spinal cord and olfactory epithelium. Isoform 5a is less abundant than the PAX6 shorter form.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA327219 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of PAX6 using K562 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-PAX6 antibody	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). Isoform 5a appears to function as a molecular switch that specifies target genes. Subunit Structure: Interacts with MAF and MAFB. Interacts with TRIM11; this interaction leads to ubiquitination and proteasomal degradation, as well as inhibition of transactivation, possibly in part by preventing PAX6 binding to consensus DNA sequences. Post-translational Modifications: Ubiquitinated by TRIM11, leading to ubiquitination and proteasomal degradation. Similarity: Belongs to the paired homeobox family.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505615
NCBI GeneID	5080
NCBI Accession #	NP_000271.1
NCBI GenBank Nucleotide #	NM_000280.4
UniProt Accession #	P26367; Q6N006; Q99413
Molecular Weight	Observed: 47 kDa Predicted: 47 kDa
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; ASGD5; 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

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.

