

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

PAX6 Rabbit mAb

CATALOG # AAA282679	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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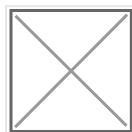
PRODUCT SYNONYMS

PAX6; Monoclonal Antibody; PAX6 Rabbit mAb; AN; anti-PAX6 antibody

PRODUCT SPECIFICATIONS

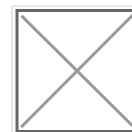
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	TNTYSALPPM PSFTMANNLP MQPPVPSQTS SYSCMLPTSP SVNGRSYDTY TPPHMQTHMN SQPMGTSGTT STGLISPGVS VPVQVPGSEP DMSQYWRLQ
Applicable Applications for anti-PAX6 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 323-422 of human PAX6 (NP_000271.1).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Mouse pancreatic islet using PAX6 Rabbit mAb (AAA282679) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



WB (Western Blot)

Western blot analysis of various lysates using PAX6 Rabbit mAb (AAA282679) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.

ADDITIONAL INFORMATION

Related Product Information for anti-PAX6 antibody	This gene encodes paired box protein Pax-6, one of many human homologs of the Drosophila melanogaster gene prd. In addition to a conserved paired box domain, a hallmark feature of this gene family, the encoded protein also contains a homeobox domain. Both domains are known to bind DNA and function as regulators of gene transcription. Activity of this protein is key in the development of neural tissues, particularly the eye. This gene is regulated by multiple enhancers located up to hundreds of kilobases distant from this locus. Mutations in this gene or in the enhancer regions can cause ocular disorders such as aniridia and Peter's anomaly. Use of alternate promoters and alternative splicing results in multiple transcript variants encoding different isoforms. Interestingly, inclusion of a particular alternate coding exon has been shown to increase the length of the paired box domain and alter its DNA binding specificity. Consequently, isoforms that carry the shorter paired box domain regulate a different set of genes compared to the isoforms carrying the longer paired box domain.
Product Categories/Family for anti-PAX6 antibody	Epigenetics Nuclear Signaling; Transcription Factors; Signal Transduction; MAPK-Erk Signaling Pathway; Cell Biology Developmental Biology; Neuroscience; Cell Type Marker; Stem Cells; Antibodies

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	Calculated MW: 47kDa/48kDa Observed MW: 47kDa
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.