

PAX6 Polyclonal Antibody | anti-PAX6 antibody

Anti-PAX6 Antibody

CATALOG # AAA46310	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

PAX6; Polyclonal Antibody; Anti-PAX6 Antibody; Paired box protein Pax-6; AN 2; AN; AN2; Aniridia type II protein; D11S812E; FVH1; MGC17209; MGDA; Oculorhombin; Paired box 6; Paired box gene 6 (aniridia keratitis); Paired Box Gene 6; Paired box homeotic gene 6; Paired box protein Pax6; PAX 6; PAX6_HUMAN; Sey; WAGR; paired box 6; anti-PAX6 antibody

PRODUCT SPECIFICATIONS

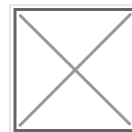
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	422
Applicable Applications for anti-PAX6 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human PAX6 (195-233aa EDSDEAQMRLQLKRLQRNRTSFTQEIEALEKEFERTH), identical to the related mouse and rat sequences.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



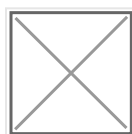
IHC (Immunohistochemistry)

Anti- PAX6 Picoband antibody, AAA46310, IHC(P)IHC(P): Human Pancreatic Cancer Tissue



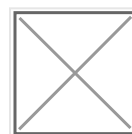
IHC (Immunohistochemistry)

Anti- PAX6 Picoband antibody, AAA46310, IHC(P)IHC(P): Rat Pancreas Tissue



IHC (Immunohistochemistry)

Anti- PAX6 Picoband antibody, AAA46310, IHC(P)IHC(P): Mouse Pancreas Tissue



WB (Western Blot)

Anti- PAX6 Picoband antibody, AAA46310, Western blotting

All lanes: Anti PAX6 (AAA46310) at 0.5ug/ml

Lane 1: Rat Brain Tissue Lysate at 50ug

Lane 2: Mouse Brain Tissue Lysate at 50ug

Lane 3: U87 Whole Cell Lysate at 40ug

Lane 4: HELA Whole Cell Lysate at 40ug

Predicted bind size: 47KD

Observed bind size: 47KD

ADDITIONAL INFORMATION

Related Product Information for anti-PAX6 antibody	Description: Rabbit IgG polyclonal antibody for Paired box protein Pax-6(PAX6) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: Paired box protein Pax-6, also known as aniridia type II protein (AN2) or oculorhombin, is a protein that in humans is encoded by the PAX6 gene. This gene encodes a homeobox and paired domain-containing protein that binds DNA and functions as a regulator of transcription. Activity of this protein is key in the development of neural tissues, particularly the eye. In addition, 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 result in multiple transcript variants encoding different isoforms.
References	1. Gehring WJ, Ikeo K (September 1999). "Pax 6: mastering eye morphogenesis and eye evolution". Trends Genet. 15 (9): 371-7. 2. Jordan T, Hanson I, Zaletayev D, Hodgson S, Prosser J, Seawright A, Hastie N, van Heyningen V (August 1992). "The human PAX6 gene is mutated in two patients with aniridia". Nat. Genet. 1 (5): 328-32. 3. Walcher T, Xie Q, Sun J, Irmeler M, Beckers J, Öztürk T, Niessing D, Stoykova A, Cvekl A, Ninkovic J, Götz M (March 2013). "Functional dissection of the paired domain of Pax6 reveals molecular mechanisms of coordinating neurogenesis and proliferation". Development 140 (5): 1123-36.

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	– Da
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

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