

## ARG55239 anti-PAX6 antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes PAX6
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Bov, Xenopus
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PAX6
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 183-210 (Center) of Human PAX6.
Conjugation	Un-conjugated
Alternate Names	MGDA; Aniridia type II protein; AN; Oculorhombin; Paired box protein Pax-6; AN2; WAGR; FVH1; D11S812E

### Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	ICC/IF	1:10 - 1:50
	IHC-P	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	U251	

### Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

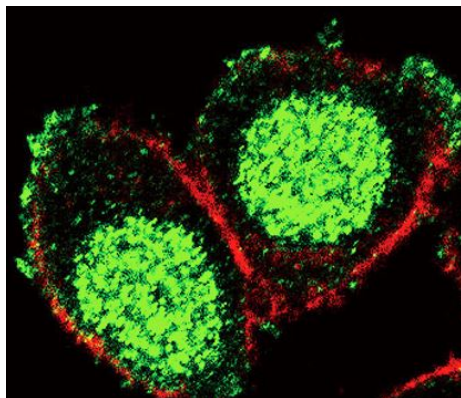
Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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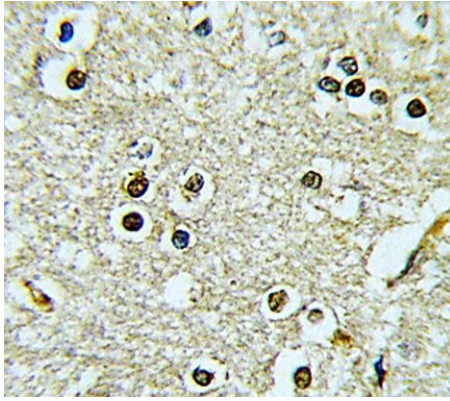
Database links	<a href="#">GeneID: 5080 Human</a> <a href="#">Swiss-port # P26367 Human</a>
Gene Symbol	PAX6
Gene Full Name	paired box 6
Background	This gene encodes paired box gene 6, one of many human homologs of the <i>Drosophila melanogaster</i> gene <i>prd</i> . In addition to the hallmark feature 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 multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]
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. [UniProt]
Highlight	Related products: <a href="#">PAX6 antibodies: Anti-Rabbit IgG secondary antibodies:</a> Related news: <a href="#">Choose the Best ZIKA Virus Antibodies</a> <a href="#">Fight microcephaly with arigo</a>
Research Area	Controls and Markers antibody; Developmental Biology antibody; Gene Regulation antibody; Neuroscience antibody
Calculated Mw	47 kDa
PTM	Ubiquitinated by TRIM11, leading to ubiquitination and proteasomal degradation.
Cellular Localization	Nucleus.

## Images



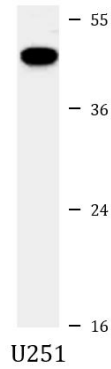
ARG55239 anti-PAX6 antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG55239 anti-PAX6 antibody (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).



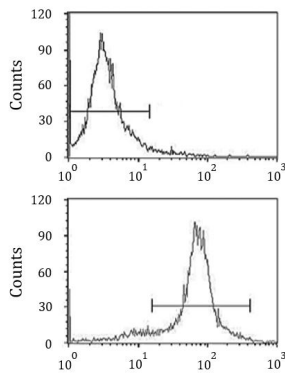
ARG55239 anti-PAX6 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human brain tissue stained with ARG55239 anti-PAX6 antibody.



ARG55239 anti-PAX6 antibody WB image

Western blot: 35 µg of U251 cell lysate stained with ARG55239 anti-PAX6 antibody.



ARG55239 anti-PAX6 antibody FACS image

Flow Cytometry: HeLa cells stained with ARG55239 anti-PAX6 antibody (bottom histogram) or without primary antibody control (top histogram), followed by incubation with FITC labelled secondary antibody.