PAX6 Monoclonal Mouse Antibody (PAX6/498)



Call us: 800-304-5357

Product Description

Pax genes contain paired domains with strong homology to genes in Drosophila, which are involved in programming early development. Lesions in the Pax-6 gene account for most cases of aniridia, a congenital malformation of the eye, chiefly characterized by iris hypoplasia, which can cause blindness. Pax-6 is involved in other anterior segment malformations besides aniridia, such as Peters anomaly, a major error in the embryonic development of the eye with corneal clouding with variable iridolenticulocorneal adhesions. The Pax-6 gene encodes a transcriptional regulator that recognizes target genes through its paired-type DNA-binding domain. The paired domain is composed of two distinct DNA-binding subdomains, the amino-terminal subdomain and the carboxy-terminal subdomain, which bind respective consensus DNA sequences. The human Pax-6 gene produces two alternatively spliced isoforms that have the distinct structure of the paired domain.

Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Stock status: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order.

Catalog number key for antibody number 0498, Anti-PAX6 (PAX6/498)

Product attributes			
Antibody number	#0498		
Antibody reactivity (target)	PAX6		
Antibody type	Primary		
Host species	Mouse		
Clonality	Monoclonal		
Clone	PAX6/498		
Isotype	IgG1, kappa		
Molecular weight	47 kDa		
Synonyms	AN2; Aniridia type II protein; Oculorhombin; Paired box gene 6 (aniridia keratitis); Paired box homeotic gene 6; Paired box protein Pax-6; Sey; WAGR		
Human gene symbol	PAX6		
Entrez gene ID	5080		
SwissProt	P26367		
Unigene	611376		
Immunogen	Recombinant fragment (N-terminus; aa 1-300) of human PAX6 protein		
Antibody target cellular	Nucleus		
Verified antibody applications	WB (verified)		
Species reactivity	Chicken, Human, Mouse, Rat		
Antibody application notes	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Flow Cytometry 0.5-1 ug/mllion cells/0.1 mL, Western blotting 0.5-1 ug/mL, Optimal dilution for a specific application should be determined by user		
	dilution for a specific application should		
Positive control	dilution for a specific application should		
Positive control Shipping condition	dilution for a specific application should be determined by user		
	dilution for a specific application should be determined by user Pancreas or Cerebellum		
Shipping condition	dilution for a specific application should be determined by user Pancreas or Cerebellum Room temperature Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store		
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Email: btinfo@biotium.com

Antibody # prefix BNC04	Conjugation CF®405S	Ex/Em (nm) 404/431	Laser line 405	Detection channel DAPI (microscopy), AF405	Dye Features CF8405S Features
BNC88	CF®488A	490/515	488	GFP. FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561 [°]	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified,	N/A	N/A	N/A	

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