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Datasheet for 200-301-R22

PAX6 Antibody

Overview

Description:	Anti-PAX6 (MOUSE) Monoclonal Antibody - 200-301-R22
Item No.:	200-301-R22
Size:	100 µg
Applications:	ELISA, IF
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Paired box protein Pax-6 also known as aniridia type II protein (AN2) or oculorhombin is a transcription factor with key functions in the development of the eye, nose, central nervous system and pancreas. Pax6 further seems to be required for the differentiation of pancreatic islet alpha cells. PAX6 has been shown to bind to a promoter element in the glucagon, insulin and somatostatin promoters and regulates the specification of the ventral neuron subtypes by establishing the correct progenitor domains. Isoform 5a appears to function as a molecular switch that specifies target genes. Anti-PAX6 antibody is ideal for researchers interested in developmental biology, stem cell research, cell growth and cancer research.
Synonyms:	mouse anti-pax6 antibody, Paired box protein Pax-6, Aniridia type II protein, Oculorhombin, AN2, PAX 6 Antibody
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	7H10.D3.D4.G5
Format:	IgG1

Target Details

Gene Name:	PAX6
Reactivity:	Human
Immunogen Type:	Recombinant Protein

Immunogen:	PAX6 protein A purified antibody was prepared in mice by repeated immunizations with a recombinant protein corresponding to human PAX6 protein.
Purity/Specificity:	Anti-PAX6 was purified from clarified ascites by Protein A chromatography. Cross-reactivity with PAX6 from other sources has not been determined.
Relevant Links:	• UniProtKB - P26367 • GeneID - 5080 • NCBI - NP_000271.1

Application Details

Tested Applications:	ELISA, IF
Application Note:	Anti-PAX6 antibody has been tested by ELISA and Immunofluorescence and suitable for Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 46.7 kDa in size corresponding to PAX6 by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:75,000 - 1:150,000
IF:	1:100
WB:	1:500 - 1:2,000

Formulation

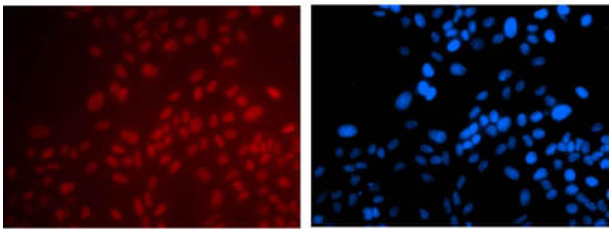
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of Mouse anti-PAX6 antibody. Tissue: Hela Cell,20X. Fixation: 4% PFA room temp for 10 min. Antigen retrieval: not required. Primary antibody: PAX6 antibody at 1:100 for 1 h at RT. Secondary antibody: goat anti-mouse secondary antibody at 1:1,000 for 45 min at RT. Localization: PAX6 is nuclear. Staining: PAX6 as red fluorescent signal with DAPI (blue) nuclear counterstain. Images courtesy of Yang Xiang with Boston Children's Hospital.

References

- Zaworski PG et al. Quantitation of Pax-6 protein in ocular impression cytology samples using an electrochemiluminescence immunoassay. *Anal Biochem.* (2022)

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