

Datasheet for 200-301-R22S**PAX6 Antibody****Overview**

Description:	Anti-PAX6 (MOUSE) Monoclonal Antibody - 200-301-R22S
Item No.:	200-301-R22S
Size:	25 µL
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 • NCBI - NP_000271.1 • GeneID - 5080

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:	1.0 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

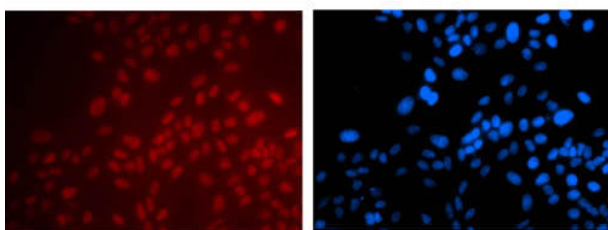
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.