

Datasheet for 600-401-GR7S**Pax7 Antibody****Overview**

Description:	Anti-Pax7 (RABBIT) Antibody - 600-401-GR7S
Item No.:	600-401-GR7S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	The Anti-Pax7 antibody was designed, produced, and validated as part of the Joy Cappel Young Investigator Award (JCYIA). Paired box protein Pax-7 transcription factor plays a role in myogenesis through regulation of muscle precursor cells proliferation. These genes play critical roles during fetal development and cancer growth. It is expressed specifically during the development of the nervous and muscular system. Anti-Pax7 antibody is ideal for researchers interested in developmental biology, stem cell research, cell growth and cancer research.
Synonyms:	rabbit anti-Pax7 antibody, Paired box protein Pax-7, Pax 7, Pax-7
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Pax7
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Pax7 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of Pax7 protein.

Purity/Specificity: Anti-Pax-7 was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross reactivity with Pax7 protein from mouse (100% homology) and human (66.7% homology) for the immunizing sequence. Cross-reactivity with Pax7 from other sources has not been determined.

Relevant Links:

- [UniProtKB - P47239](#)
- [NCBI - NP_035169.1](#)
- [GeneID - 18509](#)

Application Details

Tested Applications: ELISA, WB

Application Note: Anti-Pax7 antibody has been tested in ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 54.9 kDa in size corresponding to Pax7 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: 1:10,000-1:40:000

WB: 1.0 ug/ml

Other: This lot tested positive for use in western blotting and ELISA assays but is not suitable for immunofluorescence.

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

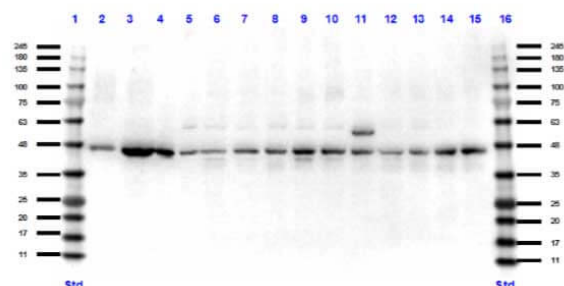
Shipping & Handling

Shipping Condition: Dry Ice

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



Western Blot

Western Blot of Rabbit anti-Pax7 antibody. Lane 1: Opal Pre-stained ladder (p/n MB-210-0500). Lane 2: Mouse muscle protein lysate. Lane 3: C2C12 Lysate (p/n W09-001-GL7). Lane 4: Ms spleen lysate (p/n W10-000-T029). Lane 5: Ms brain lysate (p/n W10-000-T004). Lane 6: HEK293T Lysate (W09-001-GX5). Lane 7: HeLa WCL (p/n W09-000-364). Lane 8: MCF7 Lysate (p/n W09-000-360). Lane 9: Jurkat Lysate (p/n W09-001-370). Lane 10: A431 Lysate (p/n W09-000-361). Lane 11: A549 Lysate (p/n W09-001-372). Lane 12: LNCap Lysate (p/n W09-001-GJ9). Lane 13: MOLT-4 Lysate (p/n W09-001-GK2). Lane 14: Ramos Lysate (p/n W09-001-369). Lane 15: Raji Lysate (W09-001-368). Lane 16: Opal Pre-stained ladder (p/n MB-210-0500). Load: 10 µg per lane. Primary antibody: Pax7 antibody at 1:1,000 for overnight at RT. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-103-122) at 1:70,000 for 30 min at RT. Blocking Buffer: MB-070 for 30 min at RT. Predicted/Observed size: ~55 kDa for Pax7.

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.