

Product datasheet

Anti-RPS6 (phospho S235 + S236) antibody [SP50] - BSA and Azide free ab236224

Recombinant RabMAb

[7 Images](#)

Overview

Product name	Anti-RPS6 (phospho S235 + S236) antibody [SP50] - BSA and Azide free
Description	Rabbit monoclonal [SP50] to RPS6 (phospho S235 + S236) - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, Dot blot, ICC/IF, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	<p>This product was produced with the following immunogens:</p> <p>Synthetic peptide within Human RPS6 (phospho S235). The exact sequence is proprietary.</p> <p>Synthetic peptide within Human RPS6 (phospho S236). The exact sequence is proprietary.</p>
Positive control	<p>IHC-P: Human breast carcinoma and tonsil tissue; Mouse Spleen tissue; Rat Spleen tissue</p> <p>ICC/IF: PC-3 cells. FC: PC-3 cells.</p>
General notes	<p>FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.</p> <p>ab236224 is the carrier-free version of ab101691 This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>Ab236224 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.</p> <p><i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production

For more information [see here](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein A/G purified
Purification notes	Purified from TCS by protein A/G.
Clonality	Monoclonal
Clone number	SP50
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab236224** in the following tested applications.

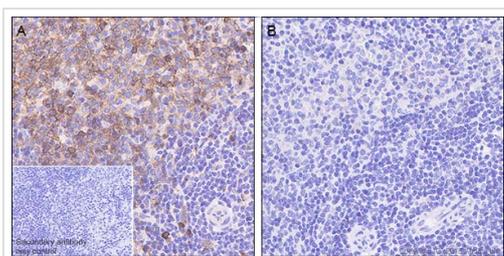
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Dot blot		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.

Target

Function	May play an important role in controlling cell growth and proliferation through the selective translation of particular classes of mRNA.
Sequence similarities	Belongs to the ribosomal protein S6e family.
Post-translational modifications	Ribosomal protein S6 is the major substrate of protein kinases in eukaryote ribosomes. The phosphorylation is stimulated by growth factors, tumor promoting agents, and mitogens. It is dephosphorylated at growth arrest.

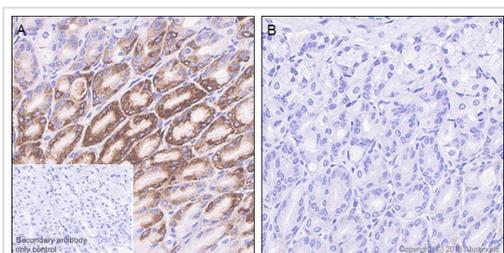
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS6 (phospho S235 + S236) antibody [SP50] - BSA and Azide free (ab236224)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat spleen tissue sections labeling RPS6 with [ab101691](#) at 1/100 dilution (1.23 µg/ml). Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Dako™REAL™ EnVision™ Detection System (K5007) was used as the secondary antibody. Hematoxylin was used as a counterstain. Cytoplasmic staining on human rat spleen without alkaline phosphatase treatment (image A); and no signal was detected when tissues were treated with alkaline phosphatase (image B), performed on a Leica Biosystems BOND™ RX instrument.

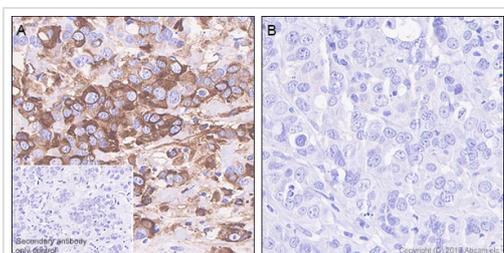
The section was incubated with [ab101691](#) for 10 mins at room temperature. This image was generated using [ab101691](#), the same clone, but with a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS6 (phospho S235 + S236) antibody [SP50] - BSA and Azide free (ab236224)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse stomach tissue sections labeling RPS6 with [ab101691](#) at 1/100 dilution (1.23 µg/ml). Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Dako™REAL™ EnVision™ Detection System (K5007) was used as the secondary antibody. Hematoxylin was used as a counterstain. Cytoplasmic staining on mouse stomach without alkaline phosphatase treatment (image A); and no signal was detected when tissues were treated with alkaline phosphatase (image B), performed on a Leica Biosystems BOND™ RX instrument.

The section was incubated with [ab101691](#) for 10 mins at room temperature. This image was generated using [ab101691](#), the same clone, but with a different buffer formulation.

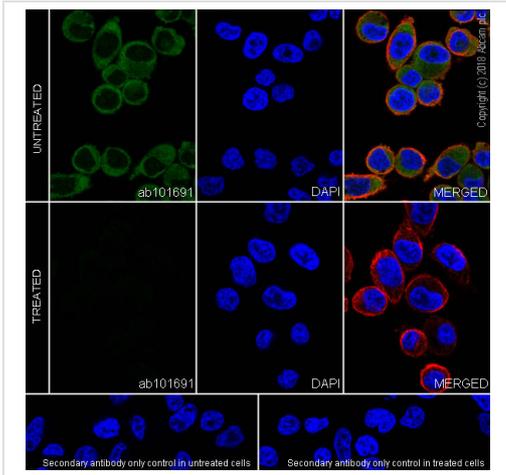


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS6 (phospho S235 + S236) antibody [SP50] - BSA and Azide free (ab236224)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human breast carcinoma tissue sections labeling RPS6 with [ab101691](#) at 1/100 dilution (1.23 µg/ml). Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Dako™ REAL™ EnVision™ Detection System (K5007) was used as the secondary antibody. Hematoxylin was used as a counterstain. Cytoplasmic staining on human breast carcinoma without alkaline phosphatase treatment (image A); and no signal was detected when tissues were treated with alkaline phosphatase (image B), performed on a Leica Biosystems BOND™ RX instrument.

The section was incubated with [ab101691](#) for 10 mins at room temperature. This image was generated using [ab101691](#), the same

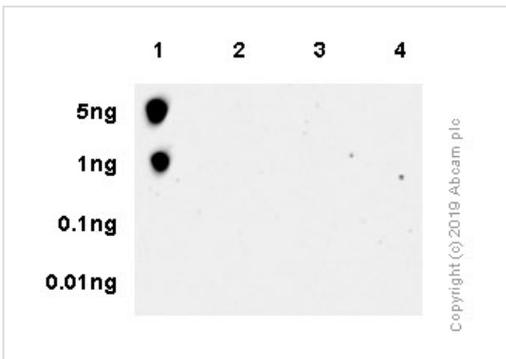
clone, but with a different buffer formulation.



Immunocytochemistry/ Immunofluorescence - Anti-RPS6 (phospho S235 + S236) antibody [SP50] - BSA and Azide free (ab236224)

Immunocytochemistry/ Immunofluorescence analysis of PC-3 (human prostate adenocarcinoma epithelial cell) treated with Lamda phosphatase cells labeling RPS6 with purified [ab101691](#) at 1:500 (0.25 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227642](#)).

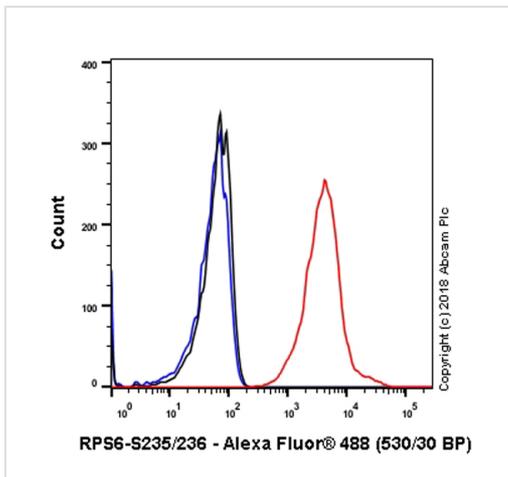


Dot Blot - Anti-RPS6 (phospho S235 + S236) antibody [SP50] - BSA and Azide free (ab236224)

Dot blot analysis of RPS6 (phospho S235 + S236) peptide (Lane 1), RPS6 (phospho S235) peptide (phospho 2) RPS6 (phospho S236) peptide (Lane 3) and RPS6 non-phospho peptide (Lane 4) labeling RPS6 (phospho S235 + S236) peptide with purified [ab101691](#) at 0.123 ug/mL. [ab97051](#) was used as the secondary antibody at 0.01 ug/mL.

Blocking buffer: 5% NFDm/TBST. Dilution buffer: 5% NFDm/TBST.

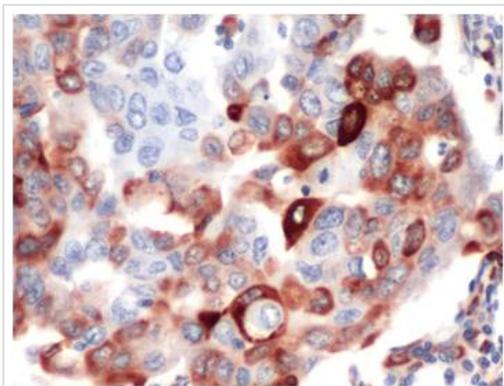
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab101691](#)).



Flow Cytometry - Anti-RPS6 (phospho S235 + S236) antibody [SP50] - BSA and Azide free (ab236224)

Flow Cytometry analysis of PC-3 (Human prostate adenocarcinoma epithelial cell) cells labeling RPS6 with purified [ab101691](#) at 1:200 dilution (0.615 µg/ml) Red. Cells were fixed with 4% paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) secondary antibody was used at 1:2000 dilution. Isotype control - Rabbit monoclonal IgG ([ab172730](#)) / Black. Unlabeled control - Unlabelled cells / Blue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab227640](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS6 (phospho S235 + S236) antibody [SP50] - BSA and Azide free (ab236224)

[ab101691](#) at 1/100 dilution staining RPS6 (phospho S235 + S236) in human breast carcinoma by Immunohistochemistry Formalin-fixed, Paraffin-embedded tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab101691](#)).

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