

Product datasheet

Anti-RPS10 antibody [EPR8545] - BSA and Azide free
ab238926

Recombinant RabMAb

13 Images

Overview

Product name	Anti-RPS10 antibody [EPR8545] - BSA and Azide free
Description	Rabbit monoclonal [EPR8545] to RPS10 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, WB, IHC-P, ICC/IF Unsuitable for: IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human RPS10 aa 100-200. The exact sequence is proprietary.
Positive control	WB: HeLa, K562, Raji, C6, Raw264.7, PC-12 and NIH/3T3 cell lysates; IHC-P: Human kidney tissue, Human gastric carcinoma, Human pancreas, Mouse stomach, Rat stomach; ICC: HeLa cells. Flow Cyt: HeLa cells.
General notes	ab238926 is the carrier-free version of ab151550 This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

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.

Ab238926 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

This product was previously labelled as Ribosomal protein S10

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR8545
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab238926** 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
Flow Cyt		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 19 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.

Application notes Is unsuitable for IP.

Target

Function Component of the 40S ribosomal subunit.

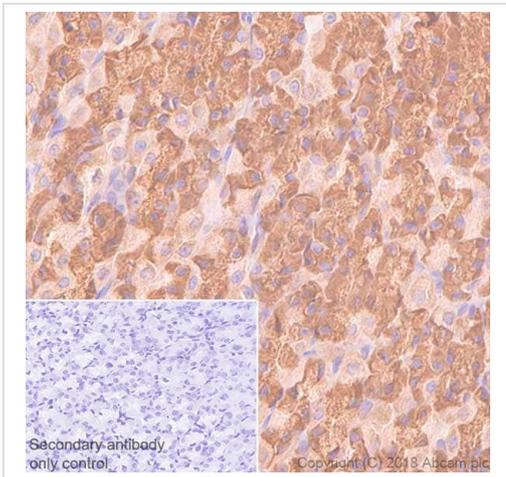
Involvement in disease Defects in RPS10 are the cause of Diamond-Blackfan anemia type 9 (DBA9) [MIM:613308]. It is a form of Diamond-Blackfan anemia, a congenital non-regenerative hypoplastic anemia that usually presents early in infancy. Diamond-Blackfan anemia is characterized by a moderate to severe macrocytic anemia, erythroblastopenia, and an increased risk of malignancy. 30 to 40% of Diamond-Blackfan anemia patients present with short stature and congenital anomalies, the most frequent being craniofacial (Pierre- Robin syndrome and cleft palate), thumb and urogenital anomalies.

Sequence similarities Belongs to the ribosomal protein S10e family.

Post-translational modifications Methylated by PRMT5. Methylation is necessary for its interaction with NPS1, its localization in the granular component (GC) region of the nucleolus, for the proper assembly of ribosomes, protein synthesis and optimal cell proliferation.

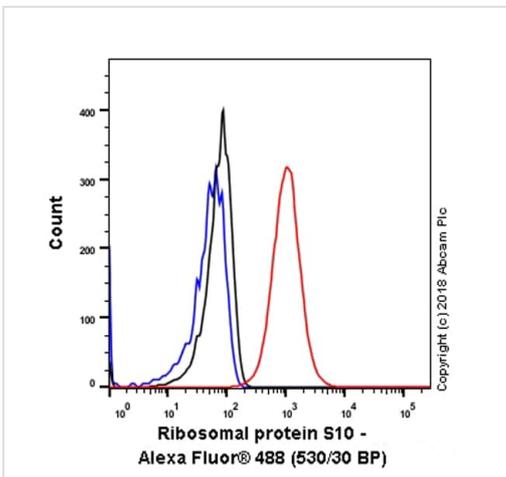
Cellular localization Cytoplasm. Nucleus > nucleolus. Localized in the granular component (GC) region of the nucleolus. Methylation is required for its localization in the GC region. Co-localizes with NPS1 in the GC region of the nucleolus.

Images



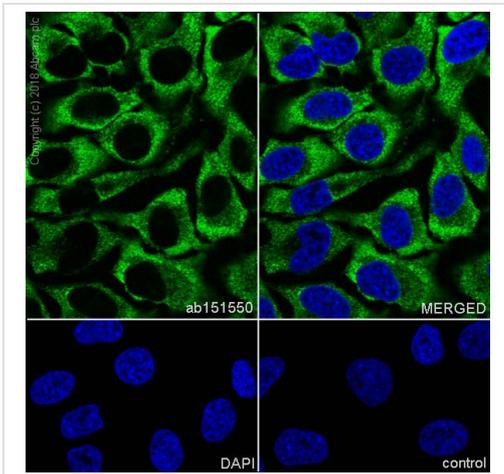
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat stomach tissue sections labeling RPS10 with Purified [ab151550](#) at 1:100 dilution (11.86 µg/ml). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab151550](#))



Flow Cytometry - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

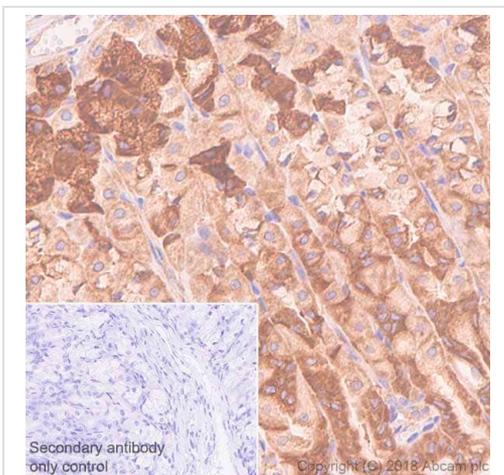
Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling RPS10 with Purified [ab151550](#) at 1:1000 dilution (1 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) secondary antibody was used at 1:2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue). This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab151550](#))



Immunocytochemistry/ Immunofluorescence - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

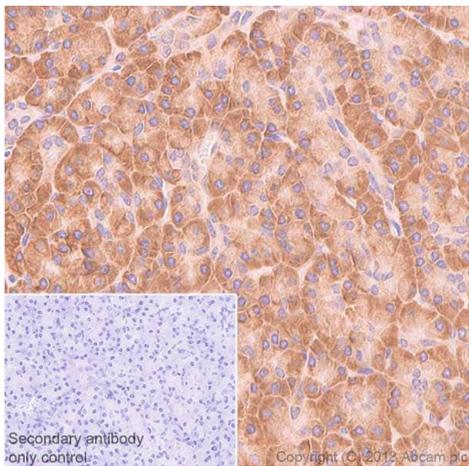
Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling RPS10 with Purified [ab151550](#) at 1:250 dilution (4.7 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 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 ([ab151550](#))



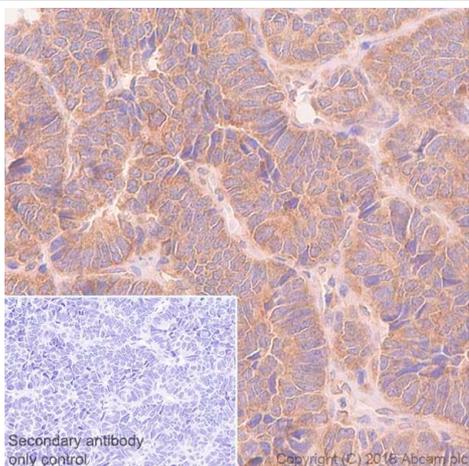
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse stomach tissue sections labeling RPS10 with Purified [ab151550](#) at 1:100 dilution (11.86 µg/ml). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab151550](#))



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

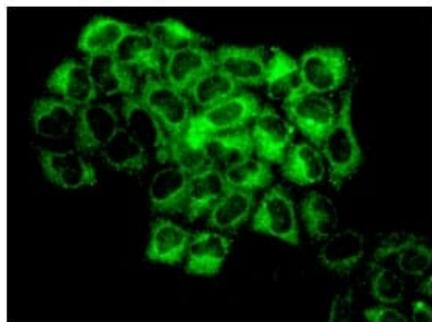
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human pancreas tissue sections labeling RPS10 with Purified [ab151550](#) at 1:100 dilution (11.86 µg/ml). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab151550](#))



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human gastric carcinoma tissue sections labeling RPS10 with Purified [ab151550](#) at 1:100 dilution (11.86 µg/ml). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

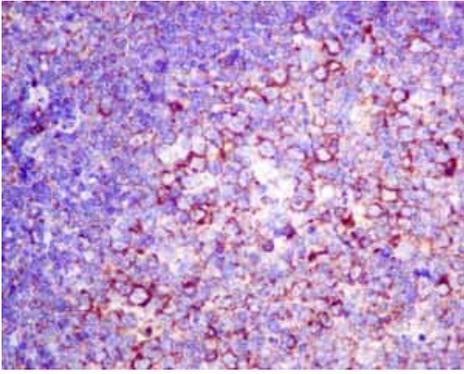
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab151550](#))



Immunocytochemistry/ Immunofluorescence - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

Immunofluorescent analysis of HeLa cells labelling RPS10 with [ab151550](#) at 1/250 dilution.

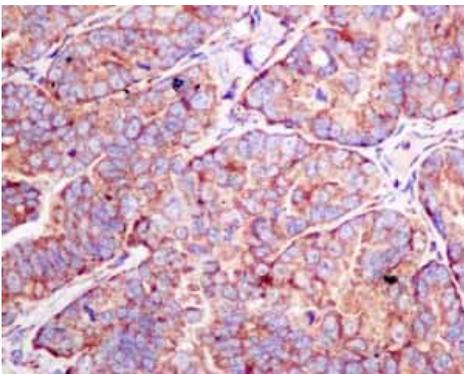
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab151550](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

Immunohistochemical analysis of paraffin embedded normal Human tonsil tissue using [ab151550](#) showing +ve staining.

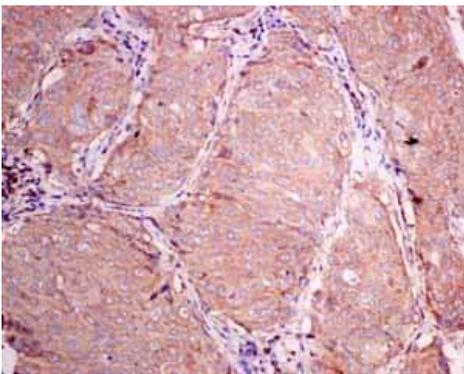
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab151550](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

Immunohistochemical analysis of paraffin embedded Human Ovarian carcinoma tissue using [ab151550](#) showing +ve staining.

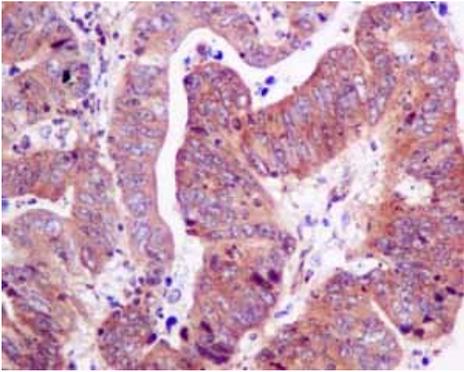
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab151550](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

Immunohistochemical analysis of paraffin embedded Human Lung carcinoma tissue using [ab151550](#) showing +ve staining.

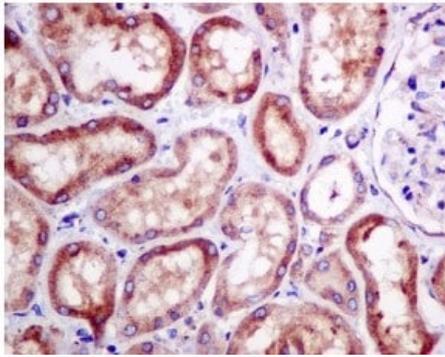
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab151550](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

Immunohistochemical analysis of paraffin embedded Human Colonic adenocarcinoma tissue using [ab151550](#) showing +ve staining.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab151550](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling RPS10 with [ab151550](#) at 1/50 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab151550](#)).

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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