abcam

ab238926

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

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR8545
Purification technique	Affinity purification Protein A
Concentration	1.066 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

WB

Expected

Species	Mouse, Rat, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	-
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

Target data

See full target information 40S ribosomal protein S10

Function	Component of the 40S ribosomal subunit (PubMed:23636399). The ribosome is a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed:23636399).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab238926 is the carrier-free version of ab151550.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

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.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	RPS10 also known as 40S ribosomal protein S10 is a component of the small ribosomal subunit essential for protein synthesis. It weighs approximately 18.7 kDa. The protein is expressed in various tissues including the liver kidney and

	brain. Its primary role involves participating in the assembly and function of ribosomes by interacting with rRNA and supporting the translation of mRNA into amino acids.
Biological function summary	RPS10 contributes to the formation and stability of the ribosomal 40S subunit. It works as part of the ribosome complex important for initiating and propelling protein synthesis. This ribosomal complex performs a central role in cellular growth and proliferation as it aids in assembling polypeptide chains that proteins need for diverse cellular processes. By doing so it supports a wide range of physiological functions.
Pathways	RPS10 contributes to protein synthesis through the translational initiation and elongation pathways. Its participation supports the accurate decoding and synthesis of proteins which are critical to cellular metabolism and growth. RPS10 interacts with other ribosomal proteins such as RPS12 and RPS14 to maintain these pathways' function and efficiency helping regulate cellular homeostasis and response to environmental stimuli.
Associated diseases and disorders	RPS10 mutations can link to Diamond-Blackfan Anemia a condition marked by failed red blood cell production impacting patient health. Moreover aberrations in RPS10 link to various cancers such as breast cancer due to its role in protein synthesis and cell growth. RPS10 interacts with proteins like RPL5 another ribosomal protein within these disease contexts suggesting a broader contribution of ribosomal dysfunction in disease pathogenesis.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

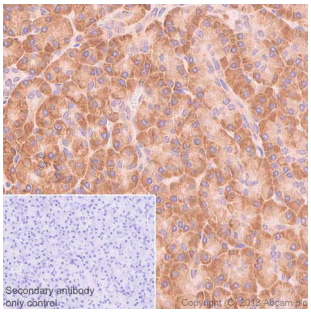
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:

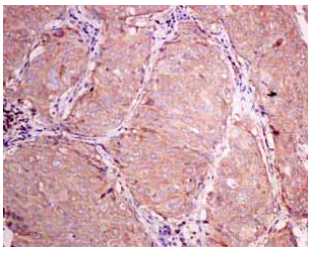
12 product images



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

RPS10 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RPS10 antibody

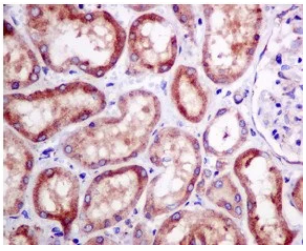
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human pancreas tissue sections labeling RPS10 with Purified ab151550 at 1:100 dilution (11.86 µg/ml). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. 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)

RPS10 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RPS10 antibody

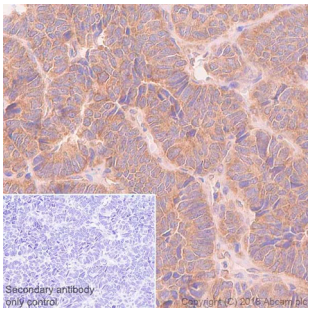
Immunohistochemical analysis of paraffin embedded Human Lung carcinoma tissue using ab151550 showing +ve staining.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab151550).



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

RPS10 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RPS10 antibody

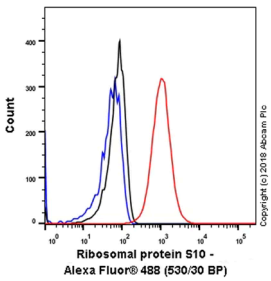
Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling RPS10 with ab151550 at 1/50 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab151550).



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

RPS10 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RPS10 antibody

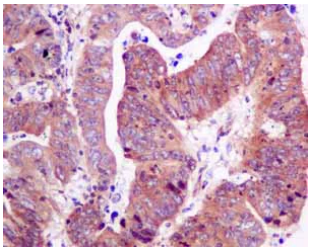
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human gastric carcinoma tissue sections labeling RPS10 with Purified ab151550 at 1:100 dilution (11.86 µg/ml). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 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)



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

RPS10 Flow Cytometry (Intracellular) staining using rabbit Anti-RPS10 antibody

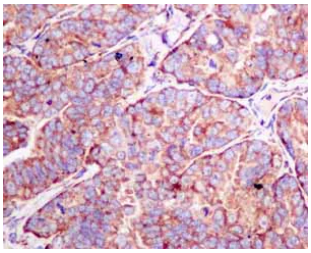
Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling RPS10 with Purified ab151550 at 1/1000 dilution (1µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000. 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)



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

RPS10 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RPS10 antibody

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).

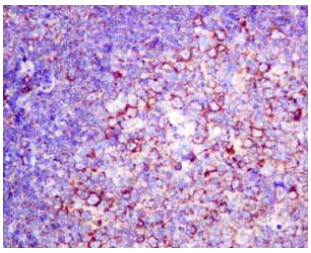


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

RPS10 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RPS10 antibody

Immunohistochemical analysis of paraffin embedded Human Ovarian carcinoma tissue using ab151550 showing +ve staining.

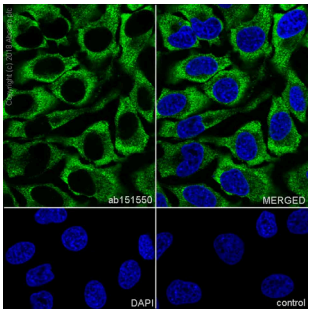
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab151550).



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

RPS10 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RPS10 antibody

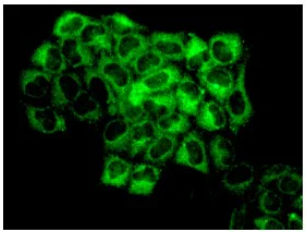
Immunohistochemical analysis of paraffin embedded normal Human tonsil tissue using ab151550 showing +ve staining.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab151550).



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

RPS10 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-RPS10 antibody

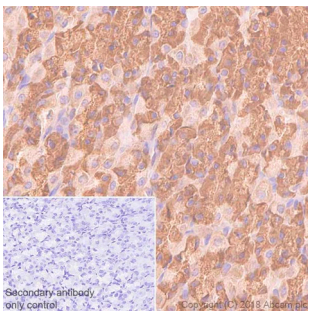
Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling RPS10 with Purified ab151550 at 1:250 dilution (4.7 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with ab195889 Anti-alpha 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)



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

RPS10 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-RPS10 antibody

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).

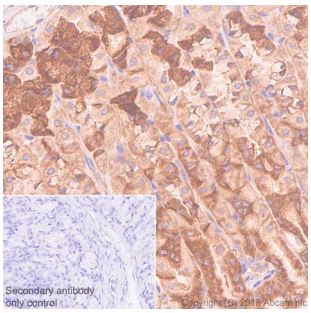


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS10 antibody [EPR8545] - BSA and Azide free (ab238926)

RPS10 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RPS10 antibody

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)



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

RPS10 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RPS10 antibody

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)

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