abcam

ab249301

Anti-RPS15 antibody [EPR11104] - 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	EPR11104
Purification technique	Affinity purification
Concentration	1.047 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-

Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information RPS15

Function	Component of the small 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

ab249301 is the carrier-free version of ab157193.

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	RPS15 also known as Ribosomal Protein S15 is a protein that plays an important role in ribosome function. It is a component of the small 40S ribosomal subunit involved in the assembly and stability of ribosomes. The molecular mass of RPS15 is approximately 17 kDa. The protein is expressed in various tissues throughout the body with higher expression levels in actively dividing cells. Its expression is detected in both the cytoplasmic and nuclear compartments indicating its involvement in ribosome biogenesis and protein synthesis.
Biological function summary	The function of RPS15 is important for proper protein synthesis since it is a part of the ribosomal protein complex. It interacts directly with ribosomal RNA and aids in decoding messenger RNA during translation. The protein contributes to maintaining the structure and function of the ribosomal unit. Moreover RPS15 associates with other ribosomal proteins to ensure efficient protein translation especially during cell growth and division.
Pathways	RPS15 participates in pathways associated with ribosome biogenesis and protein synthesis. It plays a role in the translation initiation pathway where it interacts

	with various evolutionarily conserved proteins to facilitate mRNA decoding. RPS15 also works in conjunction with other ribosomal proteins like RPS19 to co-regulate translational control. These interactions ensure the fidelity and efficiency of protein synthesis within cells.
Associated diseases and disorders	Abnormalities in RPS15 expression or function have been linked to cancer development particularly in hematological malignancies such as chronic lymphocytic leukemia. Mutations in RPS15 can disrupt normal ribosome function leading to unchecked cell growth and division. Furthermore RPS15 is associated with other ribosomal proteins like RPS20 in the context of diseases emphasizing the interconnectivity between ribosomal components in 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

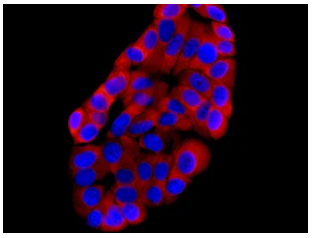
We do not recommend this combination. It is not covered by our product promise.

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:
Terms & Conditions.

5 product images

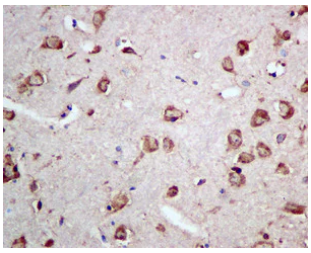


Immunocytochemistry/ Immunofluorescence - Anti-RPS15 antibody [EPR11104] - BSA and Azide free (ab249301)

RPS15 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-RPS15 antibody

This data was developed using ab157193, the same antibody clone in a different buffer formulation.Immunofluorescent analysis of MCF7 cells labeling TPST2 with ab157193 at 1/250

dilution.

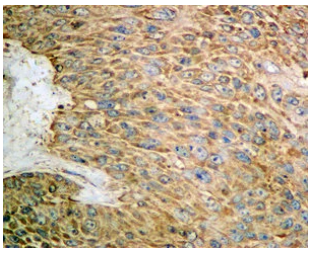


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS15 antibody [EPR11104] - BSA and Azide free (ab249301)

RPS15 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RPS15 antibody

This data was developed using ab157193, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human brain tissue labeling TPST2 with ab157193 at 1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

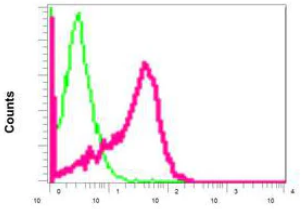


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RPS15 antibody [EPR11104] - BSA and Azide free (ab249301)

RPS15 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RPS15 antibody

This data was developed using ab157193, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human esophageal carcinoma tissue labeling TPST2 with ab157193 at 1/100 dilution.

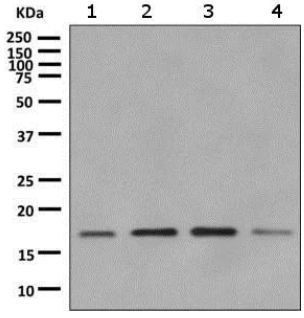
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-RPS15 antibody [EPR11104] - BSA and Azide free (ab249301)

RPS15 Flow Cytometry (Intracellular) staining using rabbit Anti-RPS15 antibody

This data was developed using ab157193, the same antibody clone in a different buffer formulation.
Intracellular Flow Cytometic analysis of permeabilized U-87 MG cells labeling TPST2 with ab157193 at 1/100 (red) or a rabbit IgG (negative) (green).



Western blot - Anti-RPS15 antibody [EPR11104] - BSA and Azide free (ab249301)

RPS15 Western blot staining using rabbit Anti-RPS15 antibody

This data was developed using ab157193, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-RPS15 antibody [EPR11104] (ab157193) at 1/1000 dilution

Lane 1:
A549 cell lysate at 10 µg

Lane 2:
HepG2 cell lysate at 10 µg

Lane 3:
U-87 MG cell lysate at 10 µg

Lane 4:
MCF7 cell lysate at 10 µg

Secondary

All lanes:
Goat anti-rabbit HRP-conjugated at 1/2000 dilution

Predicted band size: 17 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.