abcam

ab251289

Anti-HNRPAB antibody [EPR16944] - BSA and Azide free

Recombinant | RabMAb | KO Validated

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	EPR16944
Purification technique	Affinity purification Protein A
Concentration	1.04 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Expected

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

Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Expected

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

ICC/IF

Expected

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

Flow Cyt (Intra)

Expected

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

Notes	-

Target data

See full target information HNRNPAB

Function	Binds single-stranded RNA. Has a high affinity for G-rich and U-rich regions of hnRNA. Also binds to APOB mRNA transcripts around the RNA editing site.

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

ab251289 is the carrier-free version of ab199724.

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	Heterogeneous nuclear ribonucleoprotein A/B often called HNRPAB functions as a part of the ribonucleoprotein complex. This protein interacts with pre-mRNA in the nucleus and influences its processing. HNRPAB has a molecular mass of about 37 kilodaltons. Scientists find it highly expressed in various tissues including the brain and testis indicating its significant role in these areas. The protein contains RNA-binding domains and plays a part in the regulation of alternative splicing.
Biological function summary	HNRPAB influences the splicing and transport of pre-mRNA impacting the maturation process of mRNA. It collaborates with other hnRNPs and splicing factors to modulate gene expression. The protein sometimes forms part of larger complexes that are essential for RNA processing. This complex helps to stabilize RNA molecules assisting in their proper transport and translation in the cytoplasm.
Pathways	HNRPAB is involved in the regulation of RNA metabolism and processing pathways. It forms a network with other proteins like hnRNP F and hnRNP H impacting gene expression by influencing mRNA stability and availability. In conjunction with these proteins HNRPAB plays a role in the signal transduction pathways affecting cellular responses and adaptations.
Associated diseases and disorders	HNRPAB has connections to cancer and neurodegenerative disorders. Its dysregulation can lead to abnormal splicing patterns contributing to oncogenesis. In cancer associations with proteins like c-Myc indicate a role in tumorigenesis. In neurodegenerative diseases altered HNRPAB activity could impact neuronal survival contributing to the progression of disorders like Alzheimer's disease. The protein's interaction with tau suggests a potential link to tauopathies which are related to abnormal protein aggregations within neurons.

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.

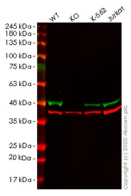
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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1 product image



Western blot - Anti-HNRPAB antibody [EPR16944] - BSA and Azide free (ab251289)

HNRPAB Western blot staining using rabbit Anti-HNRPAB antibody

This data was developed using the same antibody clone in a different buffer formulation (ab199724).
Lanes 1-4: Merged signal (red and green). Green - ab199724 observed at 48 kDa. Red - loading control ab8245 observed at 36 kDa.

ab199724 Anti-HNRPAB antibody [EPR16944] was shown to specifically react with HNRPAB in wild-type HEK293T cells. Loss of signal was observed when knockout cell line ab266459 (knockout cell lysate ab257467) was used. Wild-type and HNRPAB knockout samples were subjected to SDS-PAGE. ab199724 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated at room temperature for 2. 5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-HNRPAB antibody [EPR16944] (ab199724) at 1/1000 dilution

Lane 1:
Wild-type HEK293T cell lysate at 20 µg

Lane 2:
Western blot - Human HNRNPAB knockout HEK-293T cell lysate (ab257467) at 20 µg

Lane 3:
K-562 cell lysate at 20 µg

Lane 4:
Jurkat cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

Predicted band size: 36 kDa

Observed band size: 48 kDa

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