abcam

ab249137

Anti-RNF11 antibody [EPR6820] - 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	EPR6820
Purification technique	Affinity purification
Concentration	1.045 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-

Notes	-

ICC/IF

Not recommended

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Expected

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

Target data

See full target information RNF11

Function Essential component of a ubiquitin-editing protein complex, comprising also TNFAIP3, ITCH and TAX1BP1, that ensures the transient nature of inflammatory signaling pathways. Promotes the association of TNFAIP3 to RIPK1 after TNF stimulation. TNFAIP3 deubiquitinates 'Lys-63' polyubiquitin chains on RIPK1 and catalyzes the formation of 'Lys-48'-polyubiquitin chains. This leads to RIPK1 proteasomal degradation and consequently termination of the TNF- or LPS-mediated activation of NF-kappa-B. Recruits STAMBP to the E3 ubiquitin-ligase SMURF2 for ubiquitination, leading to its degradation by the 26S proteasome.

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

ab249137 is the carrier-free version of ab154831.

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	RNF11 also known as Ring Finger Protein 11 is a ubiquitin ligase that plays a role in the ubiquitination process. It contains a RING finger domain which is important for its function in protein-protein interactions and tagging proteins for degradation. This protein has a molecular mass of approximately 13 kDa. RNF11 is widely expressed in various tissues including the brain heart and liver suggesting its involvement in several cellular processes.

Biological function summary	RNF11 acts as part of the A20 ubiquitin-editing complex which is essential in regulating NF-kB signaling pathways. It interacts with various other proteins to modulate inflammation and immune responses by controlling the degradation of signaling molecules. The presence of RNF11 in immune cells emphasizes its role in immune regulation. RNF11 influences cellular responses to external stress signals thereby maintaining cellular homeostasis.
Pathways	RNF11 plays a significant role in the NF-kB and TGF-beta signaling pathways. It cooperates with proteins such as A20 and ITCH to mediate the ubiquitination process a critical component of these pathways. In the NF-kB pathway RNF11 helps to regulate transcriptional activation which affects inflammation and immune response modulation. Within the TGF-beta pathway it influences cell growth and differentiation.
Associated diseases and disorders	RNF11 is linked to certain inflammatory diseases and cancers. Malfunction in the regulation by RNF11 can lead to dysregulated NF-kB signaling contributing to chronic inflammatory conditions like rheumatoid arthritis. In cancers altered RNF11 expression levels have been observed potentially affecting tumor growth and metastasis through NF-kB pathway disruption. Its interaction with the deubiquitinating enzyme A20 in these disease states highlights its importance in maintaining normal cellular functions.

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

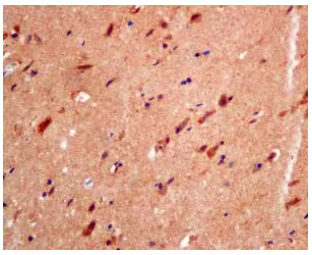
We do not recommend this combination. It is not covered by our product promise.

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.

3 product images

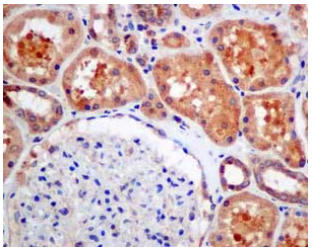


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNF11 antibody [EPR6820] - BSA and Azide free (ab249137)

RNF11 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RNF11 antibody

This data was developed using ab154831, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human brain tissue labeling RNF11 with ab154831 at 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

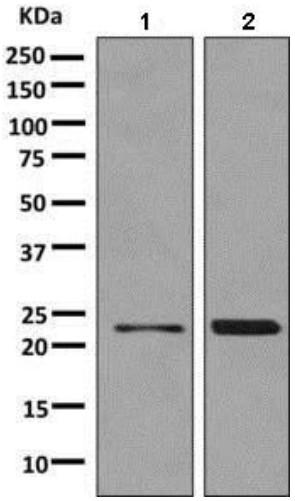


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RNF11 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-RNF11 antibody

This data was developed using ab154831, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling RNF11 with ab154831 at 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-RNF11 antibody [EPR6820] - BSA and Azide free (ab249137)

This data was developed using ab154831, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-RNF11 antibody [EPR6820] (ab154831) at 1/1000 dilution

Lane 1:
MCF7 cell lysate at 10 µg

Lane 2:
Human fetal liver tissue lysate at 10 µg

Secondary

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

Predicted band size: 17 kDa, 30 kDa

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