abcam

ab154189

Anti-KBTBD8 antibody [EPR10698(B)]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR10698(B)
Purification technique	Affinity purification Protein A
Concentration	0.223 - 0.241 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Expected

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

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information KBTBD8

Function	Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex that acts as a regulator of neural crest specification (PubMed:26399832). The BCR(KBTBD8) complex acts by mediating monoubiquitination of NOLC1 and TCOF1: monoubiquitination promotes the formation of a NOLC1-TCOF1 complex that acts as a platform to connect RNA polymerase I with enzymes responsible for ribosomal processing and modification, leading to remodel the translational program of differentiating cells in favor of neural crest specification (PubMed:26399832).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

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.

Supplementary info

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

Activity summary	KBTBD8 also known as Kelch repeat and BTB domain-containing protein 8 serves a mechanical role in the stabilization and ubiquitination processes. It functions as an adapter protein connecting specific substrates to a core ubiquitin ligase complex facilitating substrate degradation through the proteasome. KBTBD8 has an approximate mass of 69 kDa. In terms of expression KBTBD8 is found in various tissues with significant levels observed in the brain and developing tissues indicating its importance in developmental processes.
Biological function summary	KBTBD8 acts in cellular regulation and developmental processes. It is involved in the formation of a complex that mediates specific substrate recognition essential for precise protein turnover and cellular homeostasis. Evidence shows its role in neural tube development by regulating cytoskeletal dynamics emphasizing its contribution to embryonic morphogenesis. KBTBD8 activity requires interaction with other molecules in the ubiquitination pathway ensuring regulated proteolysis necessary for normal cellular function.
Pathways	The involvement of KBTBD8 extends into the ubiquitin-proteasome pathway and cytoskeletal regulation pathways. An important pathway includes its association with CRL4 E3 ligase complex a critical component that modulates cell cycle progression and response to DNA damage. Through these pathways KBTBD8 interacts with proteins such as CUL4 and DDB1 which play essential roles in maintaining genomic stability and cellular integrity.
Associated diseases and disorders	KBTBD8 relates to conditions like neural tube defects and certain cancers. Its abnormal expression or malfunction may contribute to improper embryonic development manifesting as neural tube defects. Furthermore disrupted regulation of the ubiquitination pathway involving KBTBD8 can lead to oncogenesis with proteins such as p53 being affected through altered ubiquitin-mediated processes. These associations highlight the significance of KBTBD8 in maintaining cellular and developmental equilibrium.

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.

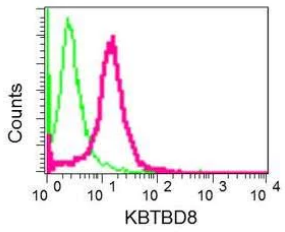
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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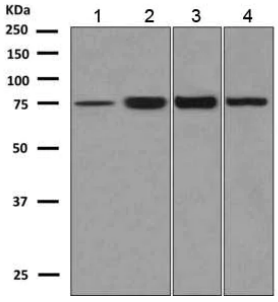
2 product images



Flow Cytometry (Intracellular) - Anti-KBTBD8 antibody [EPR10698(B)] (ab154189)

KBTBD8 Flow Cytometry (Intracellular) staining using rabbit Anti-KBTBD8 antibody

Intracellular flow cytometric analysis of permeabilized HT-1080 cells labeling KBTBD8 with ab154189 at 1/10 dilution (red) compared to a rabbit IgG negative control antibody (green).



Western blot - Anti-KBTBD8 antibody [EPR10698(B)] (ab154189)

All lanes:
Western blot - Anti-KBTBD8 antibody [EPR10698(B)] (ab154189) at 1/1000 dilution

Lane 1:
fetal liver lysate at 10 µg

Lane 2:
HT-1080 cell lysate at 10 µg

Lane 3:
Human tonsil lysate at 10 µg

Lane 4:
A431 cell lysate at 10 µg

Predicted band size: 69 kDa

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