

Anti-ERAB antibody [EPR11838(B)] - BSA and Azide free ab249547

Recombinant RabMAb

8 Images

Overview

Product name	Anti-ERAB antibody [EPR11838(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR11838(B)] to ERAB - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab249547 is the carrier-free version of ab170864.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Affinity purified
Clonality	Monoclonal
Clone number	EPR11838(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab249547 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Predicted molecular weight: 27 kDa.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IP.

Target

Function	Functions in mitochondrial tRNA maturation. Part of mitochondrial ribonuclease P, an enzyme composed of MRPP1/RG9MTD1, MRPP2/HSD17B10 and MRPP3/KIAA0391, which cleaves tRNA molecules in their 5'-ends. By interacting with intracellular amyloid-beta, it may contribute to the neuronal dysfunction associated with Alzheimer disease (AD).
Tissue specificity	Expressed in normal tissues but is overexpressed in neurons affected in AD.
Involvement in disease	<p>Defects in HSD17B10 are the cause of 2-methyl-3-hydroxybutyryl-CoA dehydrogenase deficiency (MHBD deficiency) [MIM:300438]. MHBD deficiency leads to neurological abnormalities, including psychomotor retardation, and, in virtually all patients, loss of mental and motor skills.</p> <p>Defects in HSD17B10 are the cause of mental retardation syndromic X-linked type 10 (MRXS10) [MIM:300220]. MRXS10 is characterized by mild mental retardation, choreoathetosis and abnormal behavior.</p> <p>A chromosomal microduplication involving HSD17B10 and HUWE1 is the cause of mental retardation X-linked type 17 (MRX17) [MIM:300705]; also known as mental retardation X-linked type 31 (MRX31). Mental retardation is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptive behavior and manifested during the developmental period. In contrast to syndromic or specific X-linked mental retardation which also present with associated physical, neurological and/or psychiatric manifestations, intellectual</p>

deficiency is the only primary symptom of non-syndromic X-linked mental retardation.

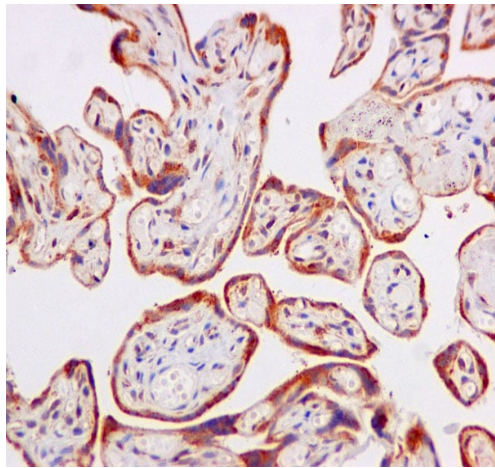
Sequence similarities

Belongs to the short-chain dehydrogenases/reductases (SDR) family.

Cellular localization

Mitochondrion.

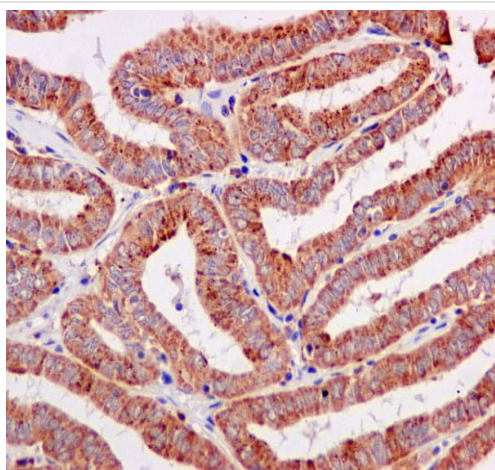
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERAB antibody [EPR11838(B)] - BSA and Azide free (ab249547)

This data was developed using [ab170864](#), the same antibody clone in a different buffer formulation.

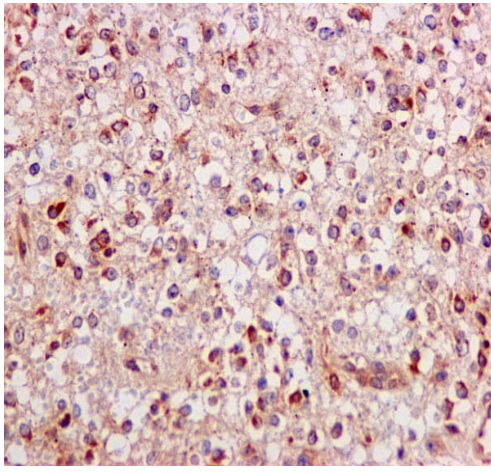
[ab170864](#) showing +ve staining in Human placenta tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERAB antibody [EPR11838(B)] - BSA and Azide free (ab249547)

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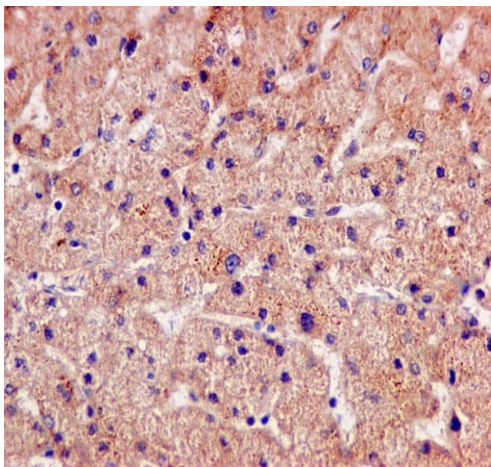
[ab170864](#) showing +ve staining in Human thyroid gland carcinoma tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERAB antibody [EPR11838(B)] - BSA and Azide free (ab249547)

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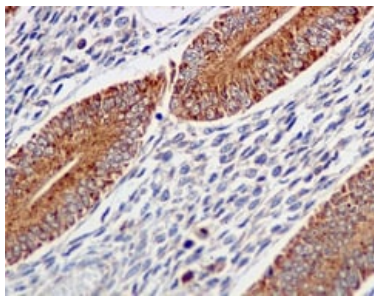
ab170864 showing +ve staining in Human astrocytoma tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERAB antibody [EPR11838(B)] - BSA and Azide free (ab249547)

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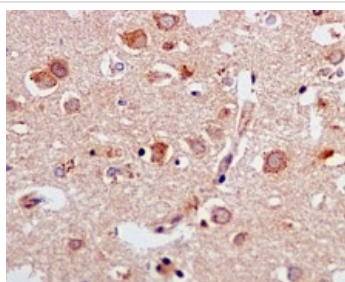
ab170864 showing +ve staining in Human normal liver tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERAB antibody [EPR11838(B)] - BSA and Azide free (ab249547)

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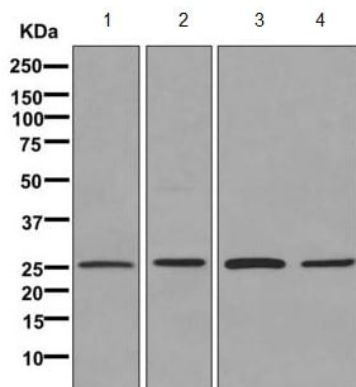
Immunohistochemical analysis of Formalin-fixed paraffin-embedded Human uterus tissue labeling ERAB with [ab170864](#) at 1/50 dilution. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERAB antibody [EPR11838(B)] - BSA and Azide free (ab249547)

This data was developed using [ab170864](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of Formalin-fixed paraffin-embedded Human brain tissue labeling ERAB with [ab170864](#) at 1/50 dilution. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-ERAB antibody [EPR11838(B)] - BSA and Azide free (ab249547)

All lanes : Anti-ERAB antibody [EPR11838(B)] ([ab170864](#)) at 1/1000 dilution

Lane 1 : Jurkat cell lysates

Lane 2 : 293T cell lysates

Lane 3 : HeLa cell lysates

Lane 4 : K562 cell lysates

Lysates/proteins at 10 µg per lane.

Predicted band size: 27 kDa

This data was developed using [ab170864](#), the same antibody clone in a different buffer formulation.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-ERAB antibody [EPR11838(B)] - BSA and Azide free (ab249547)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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