abcam

Product datasheet

Anti-ERAB antibody [5F3] ab10260

4 References 1 Image

Overview

Product name	Anti-ERAB antibody [5F3]
Description	Mouse monoclonal [5F3] to ERAB
Specificity	This antibody detects the recombinant human ERAB protein (27kDa) and recognizes the endogenous ERAB protein in cell extracts with virtually no crossreactivity with other human proteins.
Tested applications	**Suitable for:** WB, Dot blot, IHC-P, IHC-Fr, ELISA, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant, full-length Human ERAB protein (fusion protein).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium Azide Constituents: PBS, no BSA
Purity	Affinity purified
Purification notes	Ammonium sulfate precipitated and dialyzed tissue culture supernatant.
Clonality	Monoclonal
Clone number	5F3
Isotype	IgG1
Light chain type	lambda

Applications

Our Abpromise guarantee covers the use of **ab10260** 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
WB		1/100 - 1/10000. Predicted molecular weight: 27 kDa.
Dot blot		1/100 - 1/10000.
IHC-P		1/100 - 1/1000.
IHC-Fr		1/100 - 1/1000.
ELISA		Use at an assay dependent concentration.
ICC/IF		1/2000. PubMed: 17322883

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

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

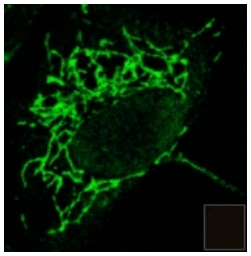
Sequence similarities

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

Cellular localization

Mitochondrion.

Images



Immunocytochemistry/ Immunofluorescence - Anti-ERAB antibody [5F3] (ab10260)

IF using ab10260.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit http://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors