

### Anti-ERAB antibody [5F3] ab10260

[6 References](#) [1 Image](#)

#### Overview

<b>Product name</b>	Anti-ERAB antibody [5F3]
<b>Description</b>	Mouse monoclonal [5F3] to ERAB
<b>Host species</b>	Mouse
<b>Specificity</b>	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.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant, full-length Human ERAB protein (fusion protein).
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Constituent: PBS
	no BSA
<b>Purity</b>	Affinity purified
<b>Purification notes</b>	Ammonium sulfate precipitated and dialyzed tissue culture supernatant.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	5F3
<b>Isotype</b>	IgG1

**Light chain type**

lambda

**Applications****The Abpromise guarantee**

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
IHC-P		1/100 - 1/1000.

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

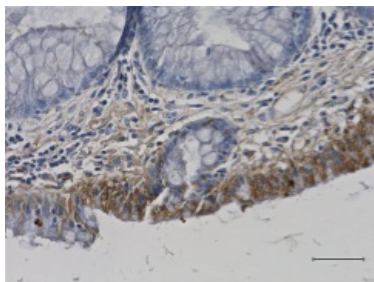
**Sequence similarities**

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

**Cellular localization**

Mitochondrion.

**Images**



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERAB antibody [5F3] (ab10260)

IHC staining of purified ab10260 on formalin-fixed paraffin-embedded human colon tissue. The tissue was incubated with 10 µg/ml of the primary antibody for 60 minutes at room temperature. A HRP kit was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 µm

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

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