**Product datasheet**

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

**Overview**

**Product name**
Anti-ERAB antibody [5F3]

**Description**
Mouse monoclonal [5F3] to ERAB

**Host species**
Mouse

**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

**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**
Constituent: 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.
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:

<table>
<thead>
<tr>
<th>Application</th>
<th>Abrevi</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td>1/100 - 1/10000. Predicted molecular weight: 27 kDa.</td>
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<tr>
<td>Dot blot</td>
<td>1/100 - 1/10000.</td>
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<td>IHC-P</td>
<td>1/100 - 1/1000.</td>
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<tr>
<td>IHC-Fr</td>
<td>1/100 - 1/1000.</td>
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<tr>
<td>ELISA</td>
<td>Use at an assay dependent concentration.</td>
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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

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