

## Mouse HSD17B10 Monoclonal Antibody | anti-HSD17B10 antibody

HSD17B10 antibody

|                               |                      |                                                                                                                 |
|-------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA106325</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Western Blot, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay</b> |
|-------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

HSD17B10; Monoclonal Antibody; HSD17B10 antibody; Monoclonal HSD17B10; Anti-HSD17B10; Hydroxysteroid 17-beta dehydrogenase 10; ERAB; MRPP2; HADH2; ABAD; HSDB10 17; HSDB10-17; anti-HSD17B10 antibody

### PRODUCT SPECIFICATIONS

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Clonality                                          | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Isotype                                            | IgG2a                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Clone Number                                       | 5 E2                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Purity/Purification                                | HSD17B10 antibody was purified by affinity chromatography.                                                                                                                                                                                                                                                                                                                                                                                      |
| Form/Format                                        | Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                         |
| Concentration                                      | 500 ug-1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Sequence Length                                    | 261                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Applicable Applications for anti-HSD17B10 antibody | WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                               |
| Biological Significance                            | HSD17B10 is a 3-hydroxyacyl-CoA dehydrogenase type II, a member of the short-chain dehydrogenase/reductase superfamily. The gene product is a mitochondrial protein that catalyzes the oxidation of a wide variety of fattyacids, alcohols, and steroids. The protein has been implicated in the development of Alzheimer's disease, and mutations in the gene are the cause of 2-methyl-3-hydroxybutyryl-CoA dehydrogenase deficiency (MHBBD). |
| Cross-Reactivity                                   | Human, Monkey                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Immunogen                                          | HSD17B10 antibody was raised in mouse using a full length recombinant protein of human HSD17B10 (NP_004484) produced in HEK293T cells, as the immunogen.                                                                                                                                                                                                                                                                                        |
| Preparation and Storage                            | Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                         |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescent staining of COS7 cells transiently transfected with recombinant HSD17B10 protein using HSD17B10 antibody



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of HSD17B10 protein in paraffin embedded Human liver tissue using HSD17B10 antibody



#### WB (Western Blot)

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant HSD17B10 protein (Right) or empty vector (Left) detected with HSD17B10 antibody

### ADDITIONAL INFORMATION

|                                                        |                                                                                    |
|--------------------------------------------------------|------------------------------------------------------------------------------------|
| Related Product Information for anti-HSD17B10 antibody | Mouse monoclonal HSD17B10 antibody                                                 |
| Product Categories/Family for anti-HSD17B10 antibody   | <a href="#">Proteases</a> ; <a href="#">Inhibitors</a> ; & <a href="#">Enzymes</a> |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">4758504</a>                                                                                                    |
| NCBI GeneID                      | <a href="#">3028</a>                                                                                                       |
| NCBI Accession #                 | <a href="#">NP_004484</a>                                                                                                  |
| NCBI GenBank Nucleotide #        | <a href="#">NM_004493.2</a>                                                                                                |
| UniProt Accession #              | <a href="#">Q99714</a> ; <a href="#">Q5H927</a> ; <a href="#">Q6IBS9</a> ; <a href="#">Q8TCV9</a> ; <a href="#">Q96HD5</a> |
| Molecular Weight                 | 25,984 Da                                                                                                                  |
| NCBI Official Full Name          | 3-hydroxyacyl-CoA dehydrogenase type-2 isoform 1                                                                           |
| NCBI Official Synonym Full Names | hydroxysteroid (17-beta) dehydrogenase 10                                                                                  |
| NCBI Official Symbol             | HSD17B10                                                                                                                   |
| NCBI Official Synonym Symbols    | ABAD; CAMR; ERAB; HCD2; MHBD; HADH2; MRPP2; MRX17; MRX31; SCHAD; MRXS10; SDR5C1; 17b-HSD10; DUPXp11.22                     |
| NCBI Protein Information         | 3-hydroxyacyl-CoA dehydrogenase type-2                                                                                     |
| UniProt Protein Name             | 3-hydroxyacyl-CoA dehydrogenase type-2                                                                                     |
| UniProt Gene Name                | <b>HSD17B10</b>                                                                                                            |
| UniProt Synonym Gene Names       | ERAB; HADH2; MRPP2; SCHAD; SDR5C1; XH98G2; 17-beta-HSD 10; Mitochondrial RNase P protein 2                                 |
| UniProt Entry Name               | HCD2_HUMAN                                                                                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/hsd17b10-antibody-clone-5-e2-western-blot-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/106325>