ARG58093
anti-ERAB / HADH2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ERAB / HADH2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ERAB / HADH2
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-261 of Human ERAB / HADH2 (NP_004484.1).
Conjugation	Un-conjugated
Alternate Names	MRPP2; ERAB; ABAD; Short chain dehydrogenase/reductase family 5C member 1; HCD2; SDR5C1; 3-hydroxyacyl-CoA dehydrogenase type-2; 17-beta-hydroxysteroid dehydrogenase 10; SCHAD; 3-hydroxy-2-methylbutyryl-CoA dehydrogenase; EC 1.1.1.178; Short-chain type dehydrogenase/reductase XH98G2; Endoplasmic reticulum-associated amyloid beta-peptide-binding protein; 17-beta-HSD 10; CAMR; Mitochondrial RNase P protein 2; EC 1.1.1.35; Type II HADH; 3-hydroxyacyl-CoA dehydrogenase type II; EC 1.1.1.51; 17b-HSD10; MRX31; DUPXp11.22; HADH2; MRX17; MRXS10; Mitochondrial ribonuclease P protein 2; MHBD

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: 22Rv1

Observed Size: 25 kDa

Properties

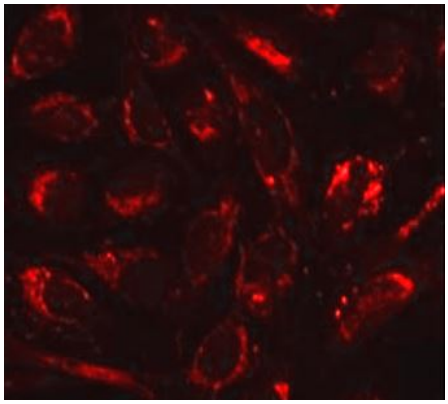
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide

Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

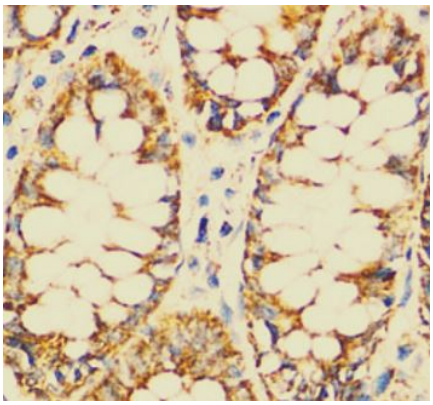
Gene Symbol	HSD17B10
Gene Full Name	hydroxysteroid (17-beta) dehydrogenase 10
Background	This gene encodes 3-hydroxyacyl-CoA dehydrogenase type II, a member of the short-chain dehydrogenase/reductase superfamily. The gene product is a mitochondrial protein that catalyzes the oxidation of a wide variety of fatty acids and steroids, and is a subunit of mitochondrial ribonuclease P, which is involved in tRNA maturation. The protein has been implicated in the development of Alzheimer disease, and mutations in the gene are the cause of 17beta-hydroxysteroid dehydrogenase type 10 (HSD10) deficiency. Several alternatively spliced transcript variants have been identified, but the full-length nature of only two transcript variants has been determined. [provided by RefSeq, Aug 2014]
Function	Functions in mitochondrial tRNA maturation. Part of mitochondrial ribonuclease P, an enzyme composed of MRPP1/TRMT10C, MRPP2/HSD17B10 and MRPP3/KIAA0391, which cleaves tRNA molecules in their 5'-ends. Catalyzes the beta-oxidation at position 17 of androgens and estrogens and has 3-alpha-hydroxysteroid dehydrogenase activity with androsterone. Catalyzes the third step in the beta-oxidation of fatty acids. Carries out oxidative conversions of 7-alpha-OH and 7-beta-OH bile acids. Also exhibits 20-beta-OH and 21-OH dehydrogenase activities with C21 steroids. By interacting with intracellular amyloid-beta, it may contribute to the neuronal dysfunction associated with Alzheimer disease (AD). [UniProt]
Calculated Mw	27 kDa
Cellular Localization	Mitochondrion. [UniProt]

Images



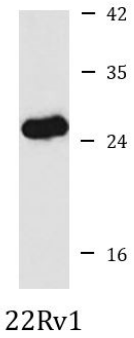
ARG58093 anti-ERAB / HADH2 antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG58093 anti-ERAB / HADH2 antibody at 1:100 dilution.



ARG58093 anti-ERAB / HADH2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human colon stained with ARG58093 anti-ERAB / HADH2 antibody at 1:100 dilution.



ARG58093 anti-ERAB / HADH2 antibody WB image

Western blot: 25 µg of 22Rv1 cell lysate stained with ARG58093 anti-ERAB / HADH2 antibody at 1:1000 dilution.