

Product datasheet for RC201734

ERAB (HSD17B10) (NM_004493) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERAB (HSD17B10) (NM_004493) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ERAB
Synonyms:	17b-HSD10; ABAD; CAMR; DUPXp11.22; ERAB; HADH2; HCD2; HSD10MD; MHBD; MRPP2; MRX17; MRX31; MRXS10; SCHAD; SDR5C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201734 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGCAGCAGCGTGTCCGAGCGTGAAGGGCCTGGTGGCGTAATAACCGGAGGAGCCTCGGGCCTGGGCC
TGGCCACGGCGGAGCGACTTGTGGGGCAGGGAGCCTCTGCTGTGCTTCTGGACCTGCCAACTCGGGTGG
GGAGGCCAAGCCAAGAAGTTAGGAAACAACCTGCGTTTTTCGCCCCAGCCGACGTGACCTCTGAGAAGGAT
GTGCAAACAGCTCTGGCTCTAGCAAAAGGAAAGTTTGGCCGTGTGGATGTAGCTGTCAACTGTGCAGGCA
TCGCGGTGGCTAGCAAGACGTACAACCTAAAGAAGGGCCAGACCCATACCTTGAAGACTTCCAGCGAGT
TCTTGATGTGAATCTCATGGGCACCTTCAATGTGATCCGCCTGGTGGCTGGTGGATGGGCCAGAATGAA
CCAGACCAGGGAGGCCAACGTGGGGTCAATCAACACTGCCAGTGTGGCTGCCTTCGAGGGTCAAGTTG
GACAAGCTGCATACTCTGCTTCCAAGGGGGGAATAGTGGGCATGACACTGCCATTGCTCGGGATCTGGC
TCCCATAGGTATCCGGGTGATGACCATTGCCCCAGGTCTGTTTGGCACCCCACTGCTGACCAGCCTCCCA
GAGAAAGTGTGCAACTTCTTGGCCAGCCAAGTGCCTTCCCTAGCCGACTGGGTGACCCTGCTGAGTATG
CTCACCTCGTACAGGCCATCATCGAGAACCATTCTCAATGGAGAGTTCATCCGGCTGGATGGGCCAT
TCGTATGCAGCCT

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004493.3](#)

RefSeq Size: 963 bp

RefSeq ORF: 786 bp

Locus ID: 3028

UniProt ID: [Q99714](#)

Cytogenetics: Xp11.22

Domains: adh_short

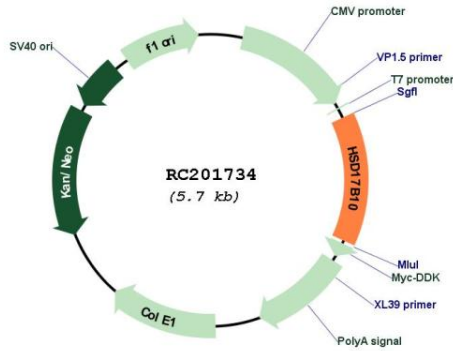
Protein Families: Druggable Genome

Protein Pathways: Alzheimer's disease, Metabolic pathways, Valine, leucine and isoleucine degradation

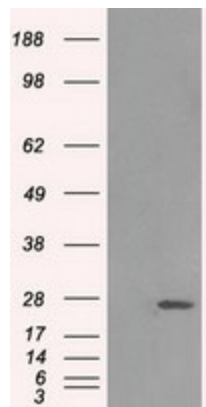
MW: 26.9 kDa

Gene Summary: 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]

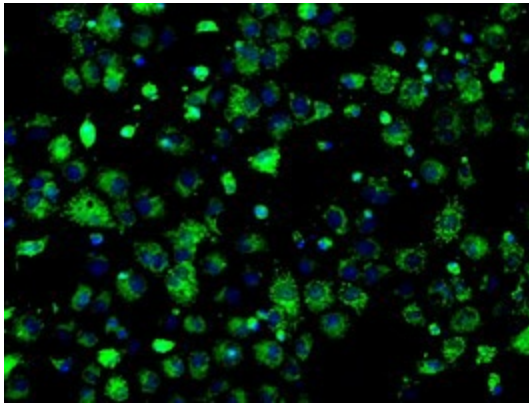
Product images:



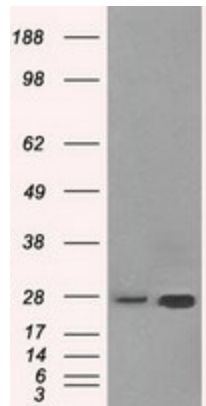
Circular map for RC201734



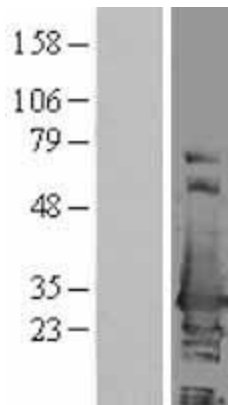
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY HSD17B10 (RC201734, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HSD17B10 ([TA500724]). Positive lysates [LY401426] (100ug) and [LC401426] (20ug) can be purchased separately from OriGene.



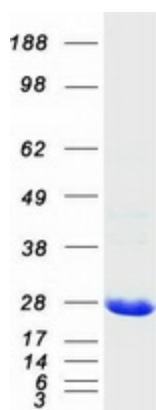
Anti-HSD17B10 mouse monoclonal antibody ([TA500724]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY HSD17B10 (RC201734).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HSD17B10 (Cat# RC201734, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HSD17B10(Cat# [TA500686]). Positive lysates [LY401426] (100ug) and [LC401426] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401426]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201734 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSD17B10 protein (Cat# [TP301734]). The protein was produced from HEK293T cells transfected with HSD17B10 cDNA clone (Cat# RC201734) using MegaTran 2.0 (Cat# [TT210002]).