

17β-HSD4 Polyclonal Antibody

Catalog No: YT5386

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: 17β -HSD4

Fields: >>Primary bile acid biosynthesis;>>Biosynthesis of unsaturated fatty

acids;>>Metabolic pathways;>>Fatty acid metabolism;>>Peroxisome

Gene Name: HSD17B4

Protein Name: Peroxisomal multifunctional enzyme type 2

P51659

P51660

Human Gene Id: 3295

Human Swiss Prot

No:

Mouse Gene Id: 15488

Mouse Swiss Prot

No:

Rat Gene Id: 79244

Rat Swiss Prot No: P97852

Immunogen: The antiserum was produced against synthesized peptide derived from the N-

terminal region of human HSD17B4. AA range:41-90

Specificity: 17β-HSD4 Polyclonal Antibody detects endogenous levels of 17β-HSD4 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC: 1:100-1:300. ELISA: 1:20000.. IF 1:50-200

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 80kD

Cell Pathway: Primary bile acid biosynthesis;

Background: hydroxysteroid 17-beta dehydrogenase 4(HSD17B4) Homo sapiens The protein

encoded by this gene is a bifunctional enzyme that is involved in the peroxisomal beta-oxidation pathway for fatty acids. It also acts as a catalyst for the formation of 3-ketoacyl-CoA intermediates from both straight-chain and 2-methyl-branched-chain fatty acids. Defects in this gene that affect the peroxisomal fatty acid beta-oxidation activity are a cause of D-bifunctional protein deficiency (DBPD). An apparent pseudogene of this gene is present on chromosome 8. Multiple alternatively spliced transcript variants encoding distinct isoforms have been

found for this gene. [provided by RefSeq, May 2014],

Function: catalytic activity:(24R,25R)-3-alpha,7-alpha,12-alpha,24-tetrahydroxy-5-beta-

cholestanoyl-CoA = (24E)-3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-

cholest-24-enoyl-CoA + H(2)O.,catalytic activity:(S)-3-hydroxyacyl-CoA + NAD(+) = 3-oxoacyl-CoA + NADH.,disease:Defects in HSD17B4 are a cause of D-bifunctional protein deficiency (DBPD) [MIM:261515]. DBPD is a disorder of

peroxisomal fatty acid beta-oxidation.,function:Bifunctional enzyme acting on the peroxisomal beta-oxidation pathway for fatty acids. Catalyzes the formation of 3-ketoacyl-CoA intermediates from both straight-chain and 2-methyl-branched-

chain fatty acids.,pathway:Lipid metabolism; fatty acid beta-

oxidation.,similarity:Belongs to the short-chain dehydrogenases/reductases (SDR) family.,similarity:Contains 1 SCP2 domain.,tissue specificity:Present in many tissues with highest concentrations in liver, heart, prostate and testis.,

Subcellular Location:

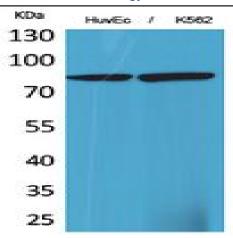
Peroxisome.

Expression:

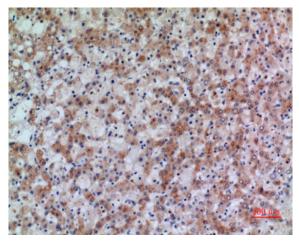
Present in many tissues with highest concentrations in liver, heart, prostate and

testis.

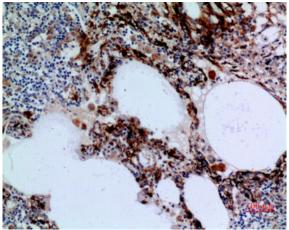
Products Images



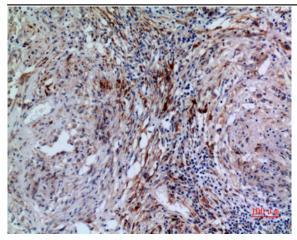
Western Blot analysis of HuvEc, K562 cells using 17β-HSD4 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



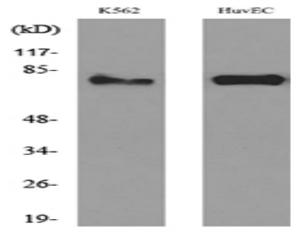
Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded humanlung, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded humanlung, antibody was diluted at 1:100



Western blot analysis of lysate from K562, HUVEC cells, using HSD17B4 Antibody.