Best Tools for immunology Research

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
Human Gene Id :	3295
Human Swiss Prot No :	P51659
Mouse Gene Id :	15488
Mouse Swiss Prot No :	P51660
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

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;

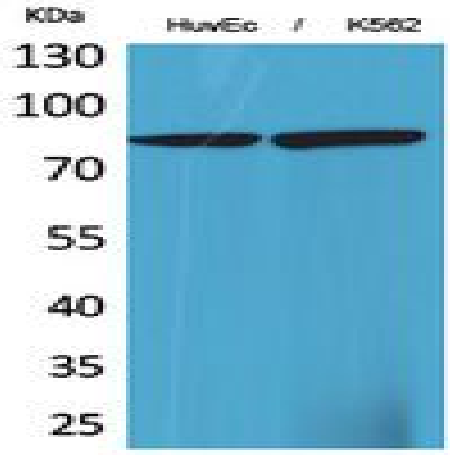
Background : hydroxysteroid 17-beta dehydrogenase 4(HSD17B4) Homo sapiens The protein encoded by this gene is a bifunctional enzyme that is involved in the peroxisomal beta-oxidation pathway for fatty acids. It also acts as a catalyst for the formation of 3-ketoacyl-CoA intermediates from both straight-chain 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.,

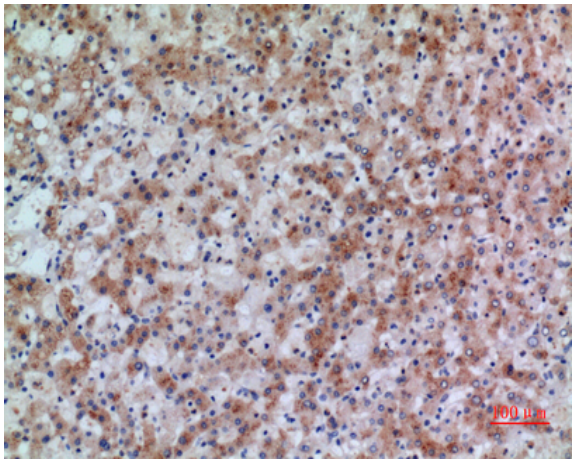
Subcellular Location : Peroxisome .

Expression : Present in many tissues with highest concentrations in liver, heart, prostate and testis.

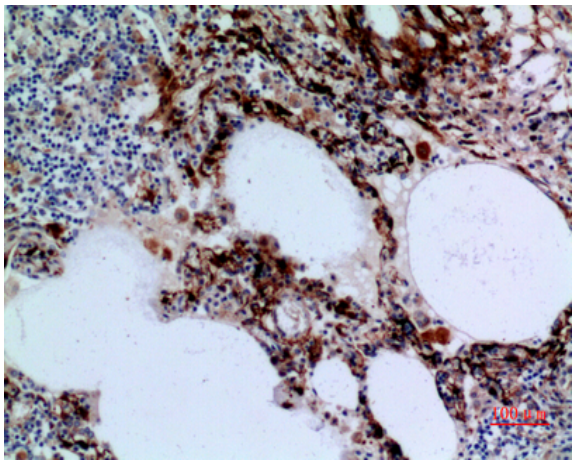
Products Images



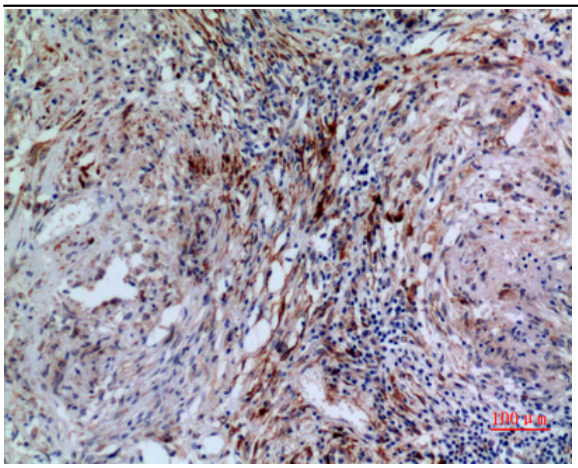
Western Blot analysis of HuvEc, K562 cells using 17β-HSD4 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



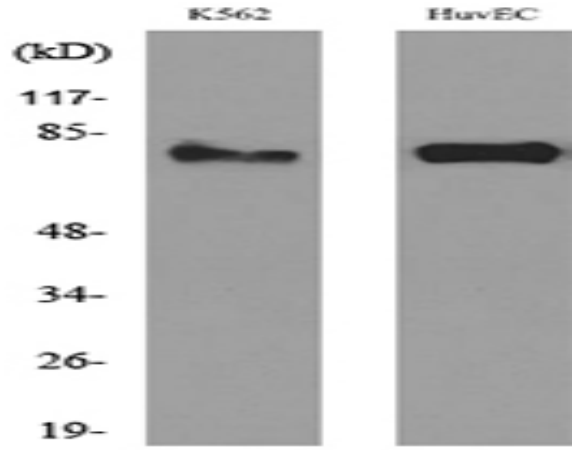
Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100



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



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



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