



# 17 $\beta$ -HSD4 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-02868
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	HSD17B4
<b>Protein Name</b>	Peroxisomal multifunctional enzyme type 2
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from the N-terminal region of human HSD17B4. AA range:41-90
<b>Specificity</b>	17 $\beta$ -HSD4 Polyclonal Antibody detects endogenous levels of 17 $\beta$ -HSD4 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	HSD17B4; EDH17B4; Peroxisomal multifunctional enzyme type 2; MFE-2; 17-beta-hydroxysteroid dehydrogenase 4; 17-beta-HSD 4; D-bifunctional protein; DBP; Multifunctional protein 2; MPF-2
<b>Observed Band</b>	80kD
<b>Cell Pathway</b>	Peroxisome .
<b>Tissue Specificity</b>	Present in many tissues with highest concentrations in liver, heart, prostate and testis.
<b>Function</b>	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.,



## 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],

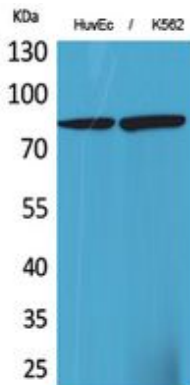
## matters needing attention

Avoid repeated freezing and thawing!

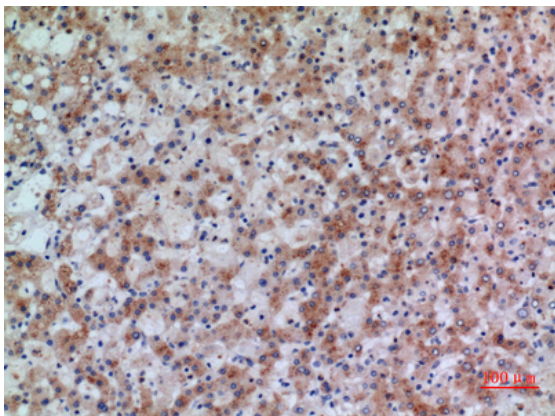
## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

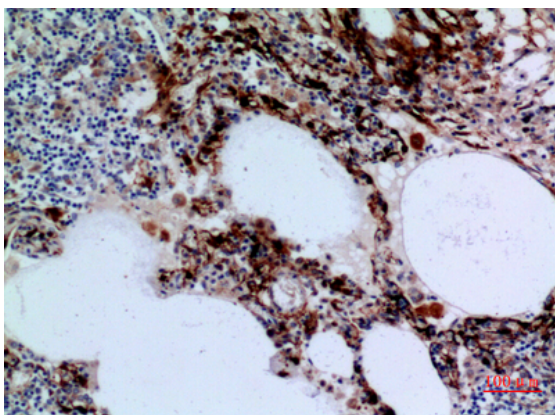
## Products Images



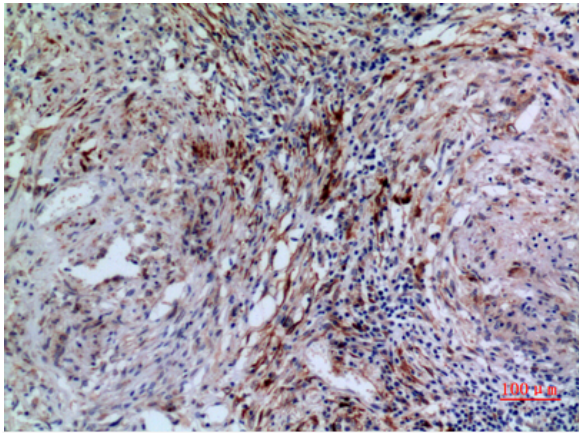
Western Blot analysis of HuvEc, K562 cells using 17β-HSD4 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



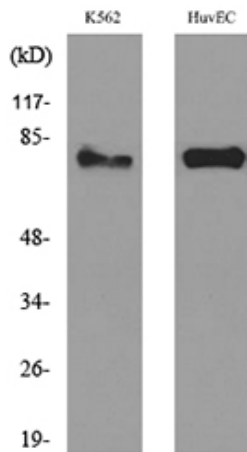
Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100



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.