Best Tools for immunology Research

# 17β-HSD4 Polyclonal Antibody

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| **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 |

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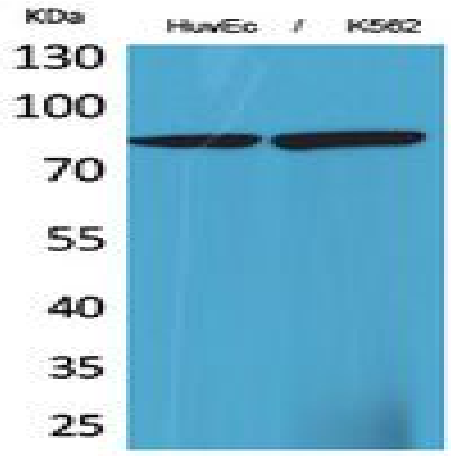
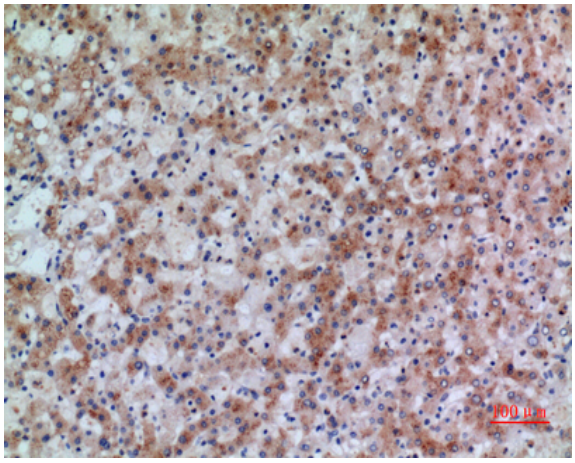
| **Purification :** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Concentration :** | 1 mg/ml |
| **Storage Stability :** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Observed Band :** | 80kD |
| **Cell Pathway :** | 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. |
| **Sort :** | 1492 |
| **No4 :** | 1 |
| **Host :** | Rabbit |
| **Modifications :** | Unmodified |

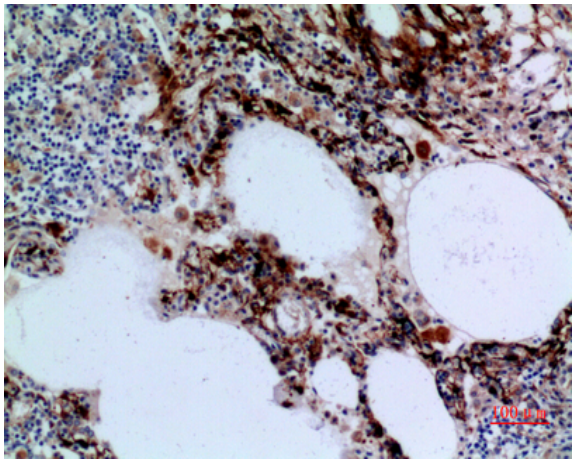
## Products Images



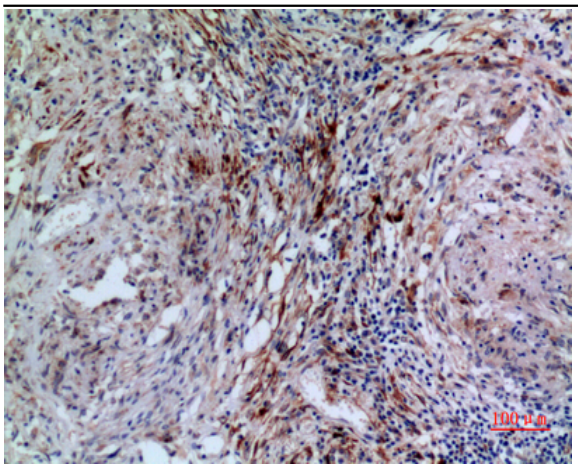

Western Blot analysis of HuvEc, K562 cells using 17β-HSD4 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



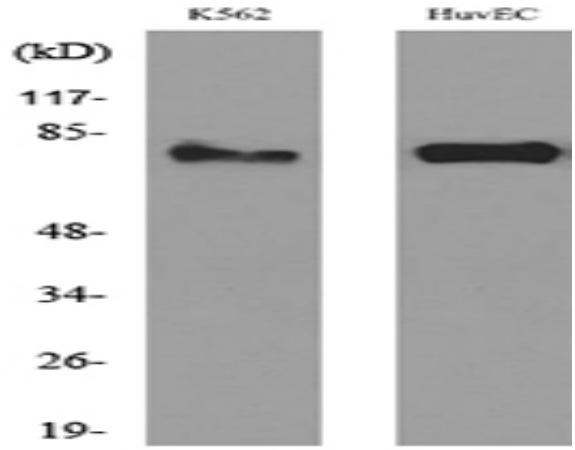
Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100



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.