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Anti-Hydroxysteroid(17-Beta) Dehydrogenase 4 Antibody

Catalog # ABO11036

Specification

Anti-Hydroxysteroid(17-Beta) Dehydrogenase 4 Antibody - Product Information

Application	**IHC, WB**
Primary Accession	F5HE57
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Peroxisomal multifunctional enzyme type 2(HSD17B4) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Hydroxysteroid(17-Beta) Dehydrogenase 4 Antibody - Additional Information

Calculated MW
79686 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization
Peroxisome.

Tissue Specificity
Present in many tissues with highest concentrations in liver, heart, prostate and testis.

Protein Name
Peroxisomal multifunctional enzyme type 2

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human Hydroxysteroid(17-beta) Dehydrogenase 4(744-761aa NIMLSQKLQMILKDYAKL), identical to the related rat and mouse sequences.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Sequence Similarities
Belongs to the short-chain dehydrogenases/reductases (SDR) family.

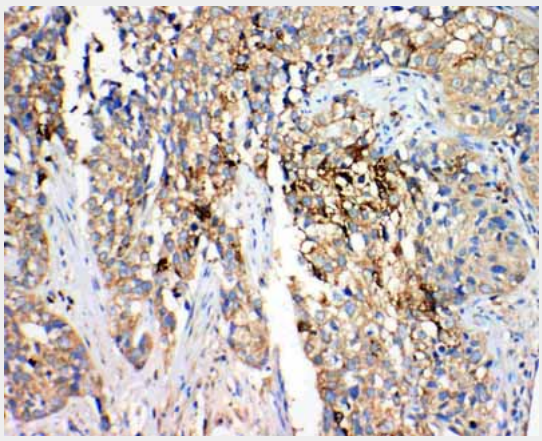
Anti-Hydroxysteroid(17-Beta) Dehydrogenase 4 Antibody - Protein Information

Anti-Hydroxysteroid(17-Beta) Dehydrogenase 4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Hydroxysteroid(17-Beta) Dehydrogenase 4 Antibody - Images



Anti-Hydroxysteroid(17-beta) Dehydrogenase 4 antibody, ABO11036, IHC(P)IHC(P): Human Lung Cancer Tissue

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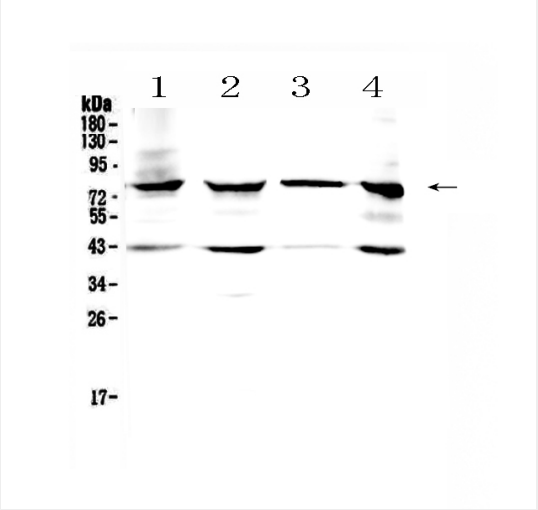
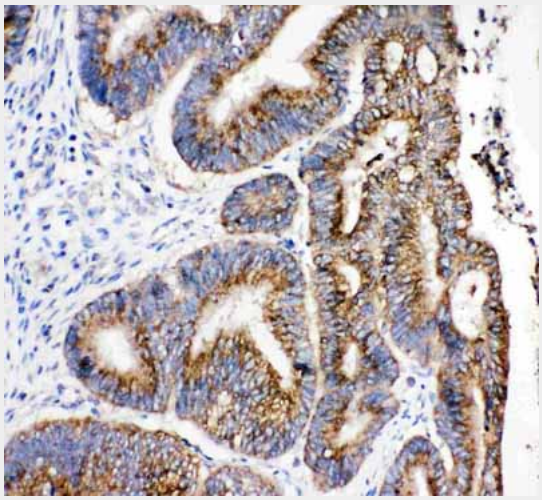


Figure 1. Western blot analysis of HSD17B4 using anti- HSD17B4 antibody (ABO11036). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse heart tissue lysates, Lane 2: rat heart tissue lysates, Lane 3: human placenta tissue lysates, Lane 4: MCF-7 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- HSD17B4 antigen affinity purified polyclonal antibody (Catalog # ABO11036) at 0.5 Î¼g/mL overnight at 4Â°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for HSD17B4 at approximately 80KD. The expected band size for HSD17B4 is at 80KD.



Anti-Hydroxysteroid(17-beta) Dehydrogenase 4 antibody, ABO11036, IHC(P)IHC(P): Human Intestinal Cancer Tissue

Anti-Hydroxysteroid(17-Beta) Dehydrogenase 4 Antibody - Background

Peroxisomal multifunctional enzyme type 2 is a protein that in humans is encoded by the HSD17B4 gene. 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.