Product datasheet
Anti-HSD17B1 Antibody
Catalog Number: BA3399



Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Basic Inform	nation	
Product Name	Anti-HSD17B1 Antibody	
Gene Name	HSD17B1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, rat	
Tested Application	WB, IHC, ICC/IF	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human HSD17B1, different from the related rat and mouse sequences by one amino acid.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	37 kDa	
Dilution Ratios	Western blot (WB): Immunohistochemistry (IHC): Immunocytochemistry/Immunofluorescence (ICC/IF): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0 mins is required for the staining of formalin/paraffin section determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Estradiol 17-beta-dehydrogenase 1 is an enzyme that in humans is encoded by the HSD17B1 gene. This gene encodes a member of the 17beta-hydroxysteroid dehydrogenase family of short-chain dehydrogenases/reductases. It has a dual function in estrogen activation and androgen inactivation and plays a major role in establishing the estrogen E2 concentration gradient between serum and peripheral tissues. The encoded protein catalyzes the last step in estrogen activation, using NADPH to convert estrogens E1 and E2 and androgens like 4-androstenedione, to testosterone. It has an N-terminal short-chain dehydrogenase domain with a cofactor binding site, and a narrow, hydrophobic C-terminal domain with a steroid substrate binding site. This gene is expressed primarily in the placenta and ovarian granulosa cells, and to a lesser extent, in the endometrium, adipose tissue, and prostate. Polymorphisms in this gene have been linked to breast and prostate cancer. A pseudogene of this gene has been identified. Alternative splicing results in multiple transcript variants.

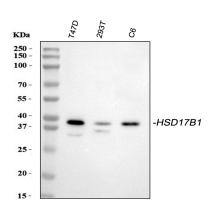
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Reference

Anti-HSD17B1 Antibody被引用在2文献中。

Selected Validation Data



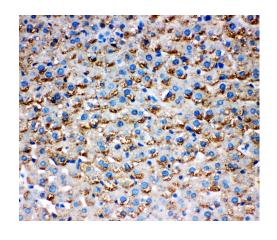
Western blot analysis of HSD17B1 using anti-HSD17B1 antibody (BA3399). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human T47D whole cell lysates,

Lane 2: human 293T whole cell lysates,

Lane 3: rat C6 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-HSD17B1 antigen affinity purified polyclonal antibody (BA3399) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for HSD17B1 at approximately 37 kDa. The expected band size for HSD17B1 is at 35 kDa.



IHC analysis of HSD17B1 using anti-HSD17B1 antibody (BA3399). HSD17B1 was detected in a paraffin-embedded section of rat liver tissue. The tissue section was incubated with rabbit anti-HSD17B1 Antibody (BA3399) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

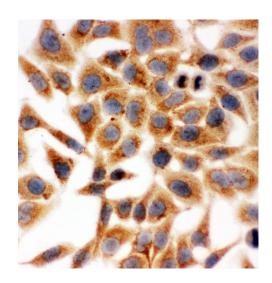
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ICC analysis of HSD17B1 using anti- HSD17B1 antibody (BA3399). HSD17B1 was detected in an immunocytochemical section of Hela cells. The section was incubated with rabbit anti-HSD17B1 Antibody (BA3399) at a dilution of 1:100. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.