

Anti-HSD17B6 Antibody

Catalog Number: PA1386

About HSD17B6

Hydroxysteroid 17-beta dehydrogenase 6 is an enzyme that in humans is encoded by the HSD17B6 gene. The protein encoded by this gene has both oxidoreductase and epimerase activities and is involved in androgen catabolism. Baker ME et al point out expression of 17beta-HSDs had an important role in the early evolution of the physiological response to androgens and estrogens. Biswas and Russell concluded that 17beta-HSD6 and RoDH play opposing roles in androgen action; 17beta-HSD6 inactivates 3alpha-adiol by conversion to androsterone and RoDH activates 3alpha-adiol by conversion to dihydrotestosterone. The synthesis of an active steroid hormone by back conversion of an inactive metabolite represents a potentially important mechanism by which the steady state level of a transcriptional effector can be regulated.

Overview

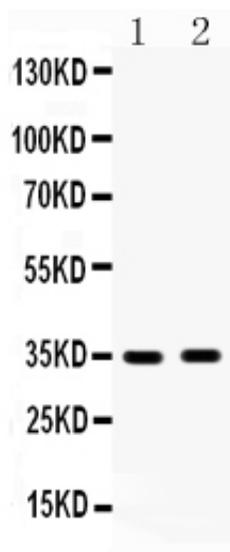
Product Name	Anti-HSD17B6 Antibody
Reactive Species	Human
Description	Rabbit IgG polyclonal antibody for 17-beta-hydroxysteroid dehydrogenase type 6(HSD17B6) detection. Tested with WB, IHC-P in Human.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	At -20°C for one year. After reconstitution, 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.
Host	Rabbit
Uniprot ID	O14756

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human HSD17B6(300-317aa SLADYILTRSWPKPAQAV).
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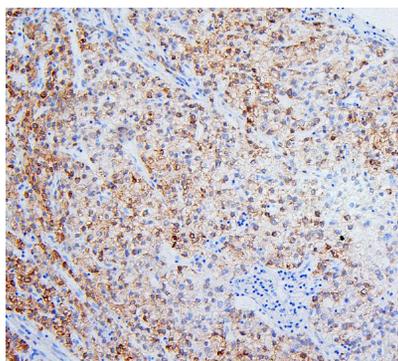
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross reactivity with other proteins
Isotype	N/A
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry(Paraffin-embedded Section), 0.5-1µg/ml, Human, By Heat Western blot, 0.1-0.5µg/ml, Human For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

Anti-HSD17B6 Antibody (PA1386) Images



Anti- HSD17B6 antibody, PA1386, Western blotting
All lanes: Anti HSD17B6 (PA1386) at 0.5ug/ml
Lane 1: Human Placenta Tissue Lysate at 50ug
Lane 2: MCF-7 Whole Cell Lysate at 40ug
Predicted bind size: 35KD
Observed bind size: 35KD

Figure 2. IHC analysis of HSD17B6 using anti-HSD17B6 antibody (PA1386).
HSD17B6 was detected in paraffin-embedded section of



human liver cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μ g/ml rabbit anti-HSD17B6 Antibody (PA1386) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

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