bs-3855R **[Primary Antibody]**

HSD17B1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3292 **SWISS:** P14061

Target: HSD17B1

Immunogen: KLH conjugated synthetic peptide derived from human HSD17B1: 21-120/328.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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. [provided by RefSeq, Sep 2016]

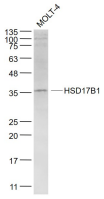
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, Cow, Dog, Horse)

Predicted MW.: 35 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: MOLT-4(Human) Cell Lysate at 30 ug
Primary: Anti- HSD17B1 (bs-3855R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 35 kD Observed band size: 35 kD

SELECTED CITATIONS

- **[IF=4.2]** Zhang, Weidong, et al. "Decrease in male mouse fertility by hydrogen sulfide and/or ammonia can Be

inheritable." Chemosphere (2017). IHC ;Mouse. 29202267