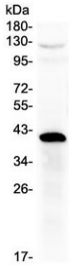
HSD17B1 Antibody (RQ4894)

Catalog No.	Formulation	Size
RQ4894	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P14061
Applications	Western blot: 0.5-1ug/ml
Limitations	This HSD17B1 antibody is available for research use only.



HSD17B1 Antibody Placenta WB. Western blot testing of human placenta lysate with HSD17B1 antibody at 0.5ug/ml. Predicted molecular weight ~35 kDa.

Description

HSD17B1 Antibody detects Estradiol 17-beta-dehydrogenase 1, 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.

Explore our HSD17B1 Antibody page for additional validation data and applications involving steroid hormone metabolism, estrogen biosynthesis, and endocrine regulation.

Application Notes

Optimal dilution of the HSD17B1 antibody should be determined by the researcher.

Immunogen

Amino acids A20-K249 from the human protein were used as the immunogen for the HSD17B1 antibody.

Storage

After reconstitution, the HSD17B1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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