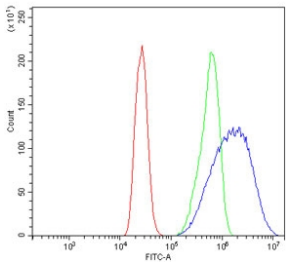
HSD17B2 Antibody (RQ6134)

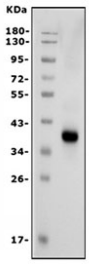
Catalog No.	Formulation	Size
RQ6134	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P37059
Applications	Western blot: 1-2ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This HSD17B2 antibody is available for research use only.



Flow cytometry testing of human Caco-2 cells with HSD17B2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HSD17B2 antibody.



Western blot testing of human placenta with HSD17B2 antibody. Predicted molecular weight ~43 kDa.

Description

HSD17B2 (17-BETA-HYDROXYSTEROID DEHYDROGENASE II), also called 17-BETA-HSD II, is an anzyme which have 387 amino acids with a predicted molecular weight of 42,782 and associate with the membranes of the endoplasmic reticulum. Its Cytogenetic location is 16q23.3. The type 2 enzyme was capable of catalyzing the interconversion of testosterone and androstenedione, as well as estradiol and estrone. HSD17B2 mRNA was detected in 18 of 42 (43%) adenomas but not in prolactinomas. In the human endometrium, inactivation of 17-beta-estradiol to estrone is catalyzed by HSD17B2. And HSD17B2 activity distinguishing between disease-free and diseased endometria. HSD17B2 efficiently catalyzes the oxidative metabolism of androgens and estrogens, and it is expressed in a large series of human peripheral tissues. The previous paradigm that HSD17B2 activity in the endometrium is elevated during the secretory phase is confined to diseased endometrium but not to disease-free endometrium.

Application Notes

Optimal dilution of the HSD17B2 antibody should be determined by the researcher.

Immunogen

Amino acids IYDYFAKRHFGQDK from the human protein were used as the immunogen for the HSD17B2 antibody.

Storage

After reconstitution, the HSD17B2 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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