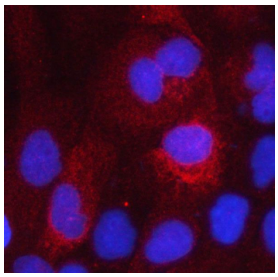
HSD17B2 Antibody (RQ8832)

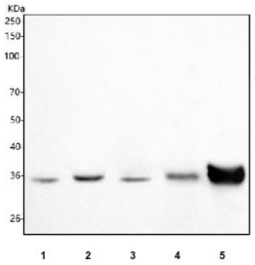
Catalog No.	Formulation	Size
RQ8832	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

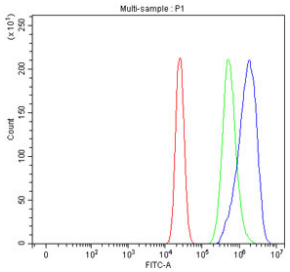
Availability	1-3 days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P37059
Localization	Cytoplasm (ER)
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Immunofluorescence : 5ug/ml ELISA : 0.1-0.5ug/ml
Limitations	This HSD17B2 antibody is available for research use only.



Immunofluorescent staining of FFPE human A431 cells with HSD17B2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human MCF7, 2) human RT4, 3) human HepG2, 4) human placenta and 5) mouse liver tissue lysate with HSD17B2 antibody. Predicted molecular weight ~43 kDa.



Flow cytometry testing of fixed and permeabilized human MCF7 cells with HSD17B2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HSD17B2 antibody.

Description

HSD17B2 is an enzyme that is responsible for the conversion of weak androgens (male sex hormones) into more potent forms, as well as the inactivation of estradiol (a form of estrogen). This delicate balance is crucial for maintaining proper hormone levels in the body, which in turn, affects various bodily functions such as metabolism, reproductive health, and overall well-being. A disruption in the function of HSD17B2 can lead to hormonal imbalances, which can manifest in a variety of symptoms such as irregular menstrual cycles, mood swings, weight gain, and even infertility. Studies have also linked dysregulation of HSD17B2 to conditions like polycystic ovary syndrome (PCOS), endometriosis, and breast cancer. Researchers are actively studying the potential therapeutic applications of HSD17B2 in various health conditions. By understanding the mechanisms of action of this protein, scientists hope to develop targeted therapies that can manipulate HSD17B2 activity to restore hormonal balance and alleviate symptoms associated with hormonal imbalances.

Application Notes

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

Immunogen

An E.coli-derived human recombinant protein (amino acids Q75-R365) was 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.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com