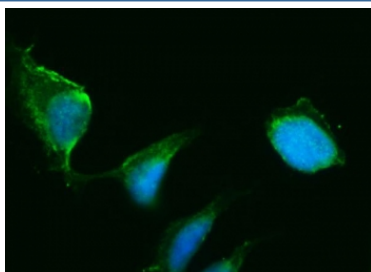


## HSD3B1 Antibody (RQ5631)

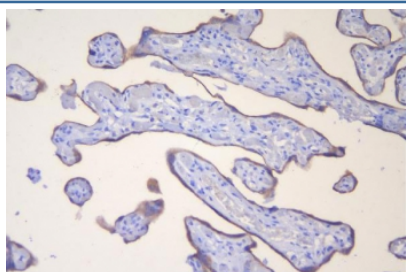
Catalog No.	Formulation	Size
RQ5631	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

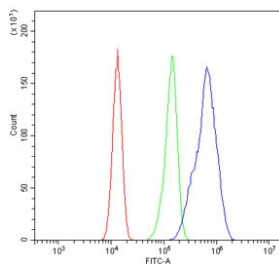
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	P14060
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml Immunofluorescence : 2-4ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This HSD3B1 antibody is available for research use only.



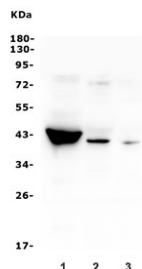
Immunofluorescent staining of FFPE human U-2 OS cells with HSD3B1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE human placenta with HSD3B1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Flow cytometry testing of human Caco-2 cells with HSD3B1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HSD3B1 antibody.



Western blot testing of human 1) placenta, 2) Caco-2 and 3) MDA-MB-453 lysate with HSD3B1 antibody. Predicted molecular weight ~42 kDa.

## Description

HSD3B1 is a human gene that encodes for a 3 $\beta$ -hydroxysteroid dehydrogenase/delta(5)-delta(4)isomerase type I or hydroxy-delta-5-steroid dehydrogenase, 3  $\beta$ - and steroid delta-isomerase 1. It is mapped to 1p12. The protein encoded by this gene is an enzyme that catalyzes the oxidative conversion of delta-5-3-beta-hydroxysteroid precursors into delta-4-ketosteroids, which leads to the production of all classes of steroid hormones. The encoded protein also catalyzes the interconversion of 3-beta-hydroxy- and 3-keto-5-alpha-androstane steroids.

## Application Notes

Optimal dilution of the HSD3B1 antibody should be determined by the researcher.

## Immunogen

Recombinant human protein (amino acids Q17-Q373) was used as the immunogen for the HSD3B1 antibody.

## Storage

After reconstitution, the HSD3B1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.