

Basic Information

Product Name	Anti-HSD3B1 Antibody	
Gene Name	HSD3B1	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, IHC, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human HSD3B1 recombinant protein (Position: Q17-Q373).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	42KD	
Dilution Ratios	Western blot(WB): Immunohistochemistry in paraffin section (IHC): (ELISA): Immunocytochemistry/Immunofluorescence (ICC/IF) Flow cytometry (FCM) (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	1:500-2000 1:50-400 1:100-1000 1:50-400 1-3 µg/1x10 ⁶ cells

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

HSD3B1 is a human gene that encodes for a 3beta-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.

Selected Validation Data

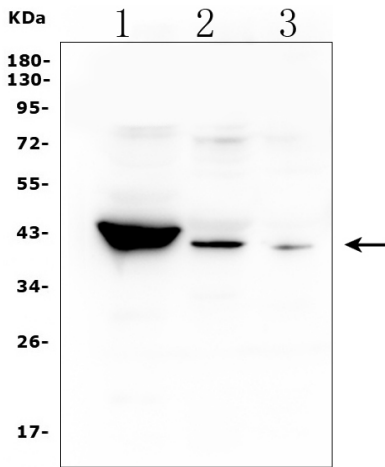


Figure 1. Western blot analysis of HSD3B1 using anti-HSD3B1 antibody (A02856-2).

Lane 1: human placenta tissue lysates,
Lane 2: human Caco-2 whole cell lysates,
Lane 3: human MDA-MB-453 whole cell lysates.
anti-HSD3B1 antigen affinity purified polyclonal antibody (Catalog # A02856-2) probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for HSD3B1 at approximately 42KDa. The expected band size for HSD3B1 is at 42KDa.

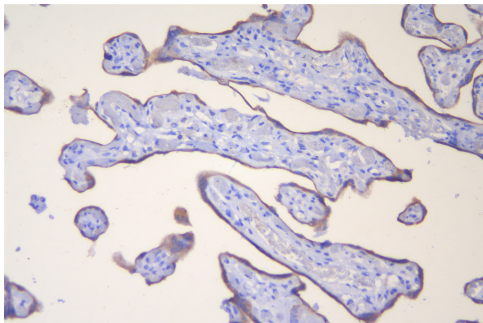


Figure 2. IHC analysis of HSD3B1 using anti-HSD3B1 antibody (A02856-2).

HSD3B1 was detected in paraffin-embedded section of human placenta tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

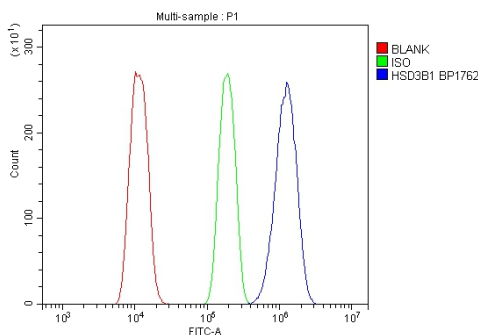


Figure 4. Flow Cytometry analysis of NRK cells using anti-HSD3B1 antibody (A02856-2). Overlay histogram showing NRK cells stained with A02856-2 (Blue line). DyLight488 conjugated goat anti-rabbit IgG (BA1127, 5-10µg/1x10⁶ cells) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.