**BACKGROUND**

17β-HSD6 (17β hydroxysteroid dehydrogenase type 6), also known as RODH (retinol dehydrogenase), oxidative 3-α-hydroxysteroid dehydrogenase or HSE (3-α-hydroxysteroid epimerase), belongs to the 17β-HSD family of proteins that regulate the availability of steroids within various tissues throughout the body. 17β-HSD6 is an NAD-dependent enzyme that is expressed in prostate and liver tissues. Localizing to the luminal side of the microsome, 17β-HSD6 plays an important role in androgen and estrogen catabolism. 17β-HSD6 exhibits oxidoreductase activity, converting 3α-adiol to dihydrotestosterone, and epimerase activity, converting androsterone to 5α-androsterone. Via its ability to inactivate androgens and estrogens, 17β-HSD6 negatively regulates the signaling activity that is mediated by these steroid hormones.

**REFERENCES**


**CHROMOSOMIC LOCATION**

Genetic locus: HSD17B6 (human) mapping to 12q13.3; Hsd17b6 (mouse) mapping to 10 D3.

**SOURCE**

17β-HSD6 (A-25) is a Protein A purified rabbit polyclonal antibody raised against 17β-HSD6 of human origin.

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**PRODUCT**

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

**APPLICATIONS**

17β-HSD6 (A-25) is recommended for detection of 17β-HSD6 of mouse, rat, human and dog origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of 17β-HSD6: 35 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, DU 145 cell lysate: sc-2268 or PC-3 cell lysate: sc-2220.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range 1:50-1:500) and goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

**DATA**

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.