

**Anti-HSD3B1 Antibody (clone 3C11-D4)**  
**Mouse Anti Human Monoclonal Antibody**  
**Catalog # ALS17852**

## Specification

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### Anti-HSD3B1 Antibody (clone 3C11-D4) - Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC-P, E           |
| Primary Accession | <a href="#">P14060</a> |
| Predicted         | Human                  |
| Host              | Mouse                  |
| Clonality         | Monoclonal             |
| Isotype           | IgG1,k                 |
| Calculated MW     | 42252                  |

### Anti-HSD3B1 Antibody (clone 3C11-D4) - Additional Information

**Gene ID** 3283

**Alias Symbol** HSD3B1

**Other Names**

HSD3B1, 3BETAHSD, 3-beta-HSD I, 3BH, HSD3B, HSDB3A, HSDB3, Steroid Delta-isomerase, Trophoblast antigen FDO161G, Progesterone reductase, SDR11E1

**Target/Specificity**

Human HSD3B1

**Reconstitution & Storage**

Protein A purified

**Precautions**

Anti-HSD3B1 Antibody (clone 3C11-D4) is for research use only and not for use in diagnostic or therapeutic procedures.

### Anti-HSD3B1 Antibody (clone 3C11-D4) - Protein Information

**Name** HSD3B1 ([HGNC:5217](#))

**Synonyms** 3BH, HSDB3A

**Function**

A bifunctional enzyme responsible for the oxidation and isomerization of 3beta-hydroxy-Delta(5)-steroid precursors to 3-oxo- Delta(4)-steroids, an essential step in steroid hormone biosynthesis. Specifically catalyzes the conversion of pregnenolone to progesterone, 17alpha-hydroxypregnenolone to 17alpha-hydroxyprogesterone, dehydroepiandrosterone (DHEA) to 4-androstenedione, and androstenediol to testosterone. Additionally, catalyzes the interconversion between 3beta-hydroxy and 3-oxo-5alpha-androstane steroids controlling the bioavailability of the active forms. Specifically converts dihydrotestosterone to its inactive form 5alpha-androstanediol, that does not bind androgen receptor/AR. Also converts androstanedione, a

precursor of testosterone and estrone, to epiandrosterone (PubMed:<a href="http://www.uniprot.org/citations/1401999" target="\_blank">1401999</a>, PubMed:<a href="http://www.uniprot.org/citations/2139411" target="\_blank">2139411</a>). Expected to use NAD(+) as preferred electron donor for the 3beta-hydroxy-steroid dehydrogenase activity and NADPH for the 3-ketosteroid reductase activity (Probable).

**Cellular Location**

Endoplasmic reticulum membrane; Single-pass membrane protein. Mitochondrion membrane; Single-pass membrane protein

**Tissue Location**

Placenta and skin (PubMed:1401999). Predominantly expressed in mammary gland tissue.

**Anti-HSD3B1 Antibody (clone 3C11-D4) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-HSD3B1 Antibody (clone 3C11-D4) - Images**