

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

Specification

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

Application	WB, IHC-P, E
Primary Accession	P14060
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:1401999, PubMed:2139411). 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