

HSD3B1 Rabbit mAb
Catalog # AP77009**Specification****HSD3B1 Rabbit mAb - Product Information**

Application	WB
Primary Accession	P14060
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	42252

HSD3B1 Rabbit mAb - Additional Information

Gene ID 3283

Other Names
HSD3B1**Dilution**
WB~~1/500-1/1000**Format**
Liquid**HSD3B1 Rabbit mAb - 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](http://www.uniprot.org/citations/1401999), PubMed:[2139411](http://www.uniprot.org/citations/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.

HSD3B1 Rabbit mAb - 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](#)

HSD3B1 Rabbit mAb - Images

