### bsm-54306R

### [ Primary Antibody ]

# BIOSS ANTIBODIES

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## Cytochrome P450 17A1 Recombinant Rabbit mAb

DATASHEET

Host: Rabbit Isotype: IgG
Clonality: Recombinant CloneNo.: 2F7
GeneID: 1586 SWISS: P05093

Target: Cytochrome P450 17A1

Immunogen: A synthesized peptide derived from human Cytochrome P450 17A1:

101-220.

**Purification:** affinity purified by Protein A

Concentration: 1mg/ml

**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50%

Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated

freeze/thaw cycles.

Background: Cytochrome P450 17A1 (CYP17A1) belongs to the cytochrome P450

family; it plays a role in the conversion of pregnenolone and progesterone into their 17-alpha-hydroxylated products and subsequently to dehydroepiandrosterone (DHEA) and androstenedione. CYP17A1 also catalyzes both the 17-alpha-hydroxylation and the 17,20-lyase reaction. CYP17A1 is involved in sexual development during fetal life and at puberty. Defects in CYP17A1 are the cause of adrenal hyperplasia type 5 (AH5). AH5 is a form of congenital adrenal hyperplasia, a common recessive

disease due to defective synthesis of cortisol.

**Applications: WB** (1:500-2000)

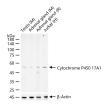
Flow-Cyt (1:50-100) ICC/IF (1:50-200)

Reactivity: Human, Mouse, Rat

Predicted MW.: 57 kDa

Subcellular Location: Cell membrane

### VALIDATION IMAGES -



25 ug total protein per lane of various lysates (see on figure) probed with Cytochrome P450 17A1 monoclonal antibody, unconjugated (bsm-54306R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

#### - SELECTED CITATIONS -

- [IF=7.129] Hui Zhao. et al. Alleviating effects of selenium on fluoride-induced testosterone synthesis disorder and reproduction toxicity in rats. ECOTOX ENVIRON SAFE. 2022 Dec;247:114249 WB; Rat. 36323150
- [IF=2.7] Qingjing Gao. et al. Seasonal changes in endoplasmic reticulum stress and steroidogenesis in the ovary of the wild ground squirrels (Citellus dauricus Brandt). GEN COMP ENDOCR. 2023 Nov;343:114368 IHC ;Squirrel. 37604348