

**bsm-54306R****[ Primary Antibody ]**

## Cytochrome P450 17A1 Recombinant Rabbit mAb

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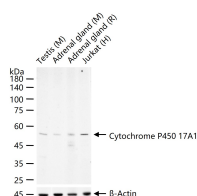
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### — DATASHEET —

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:200-1000) <b>Flow-Cyt</b> (1:50-100) <b>ICC/IF</b> (1:50-200)  <b>Reactivity:</b> Human, Mouse, Rat  <b>Predicted MW.:</b> 57 kDa  <b>Subcellular Location:</b> Cell membrane
<b>Clonality:</b> Recombinant	<b>CloneNo.:</b> 2F7	
<b>GeneID:</b> 1586	<b>SWISS:</b> P05093	
<b>Target:</b> Cytochrome P450 17A1		
<b>Immunogen:</b> A synthesized peptide derived from human Cytochrome P450 17A1: 101-220.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 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.		
<b>Background:</b> 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.		

### — 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