

bs-3853R**[Primary Antibody]****Cytochrome P450 17A1 Rabbit pAb****BioSS**
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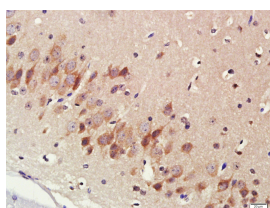
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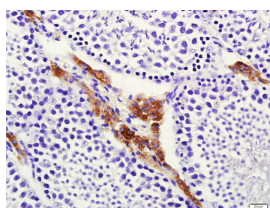
400-901-9800

— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500)
Clonality: Polyclonal		IHC-F (1:100-500)
GeneID: 1586	SWISS: P05093	IF (1:100-500)
Target: Cytochrome P450 17A1		Reactivity: Mouse (predicted: Human, Rat, Pig, Sheep, Cow, Dog, Horse)
Immunogen: KLH conjugated synthetic peptide derived from human CYP17: 401-508/508.		Predicted MW.: 57 kDa
Purification: affinity purified by Protein A		Subcellular Location: Cell membrane
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.		

— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CYP17) Polyclonal Antibody, Unconjugated (bs-3853R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CYP17) Polyclonal Antibody, Unconjugated (bs-3853R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

— SELECTED CITATIONS —

- **[IF=8.2]** Qingjing Gao. et al. 1,25(OH)₂D₃ regulates androgen synthesis via transcriptional control of steroidogenic enzymes and LHR in the scented glands of muskrats (Ondatra zibethicus). FREE RADICAL BIO MED. 2025 Mar;229:82 IHC ;Muskrat. 39827922
- **[IF=6.71]** Umehara, Takashi, et al. "The acceleration of reproductive aging in Nrg1flox/flox; Cyp19 - Cre female mice." Aging Cell (2017). IHC ;="Mouse". 28857490
- **[IF=6.8]** Peihao Sun. et al. Maternal exposure to DON during lactation induces testicular toxicity in pubertal and adult

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

offspring mice. ECOTOX ENVIRON SAFE. 2024 Jul;279:116468 WB ;Mouse. 38776783

- **[IF=6.208]** Sijie Fan. et al. Seasonal Change in Adiponectin Associated with Ovarian Morphology and Function in Wild Ground Squirrels (*Citellus dauricus* Brandt). INT J MOL SCI. 2022 Jan;23(23):14698 IHC ;Squirrel. 36499026
- **[IF=5.194]** Sijie Fan. et al. The effect of 3-Methyl-4-Nitrophenol on the early ovarian follicle development in mice by disrupting the clock genes expression. CHEM-BIOL INTERACT. 2022 May;;110001 IHC ;Mouse. 35654127