

bs-6695R**[Primary Antibody]**

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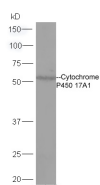
400-901-9800

Cytochrome P450 17A1 Rabbit pAb

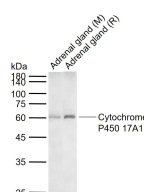
— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Mouse, Rat (predicted: Human, Rabbit, Sheep, Cow, Horse) Predicted MW.: 57 kDa Subcellular Location: Cell membrane
Clonality: Polyclonal		
GeneID: 1586	SWISS: P05093	
Target: Cytochrome P450 17A1		
Immunogen: KLH conjugated synthetic peptide derived from human P45017A1/Cytochrome P450 17A1: 24-65/508.		
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.		

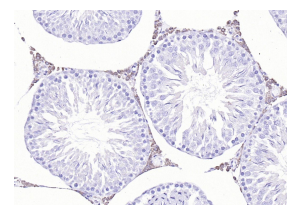
— VALIDATION IMAGES —



Sample: Testis (Mouse) Lysate at 40 ug Primary: Anti-Cytochrome P450 17A1 (bs-6695R) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/5000 dilution Predicted band size: 57 kD Observed band size: 57 kD



Sample: Lane 1: Mouse Adrenal gland tissue lysates Lane 2: Rat Adrenal gland tissue lysates Primary: Anti-Cytochrome P450 17A1 (bs-6695R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kDa Observed band size: 60 kDa



Paraformaldehyde-fixed, paraffin embedded (rat 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 (Cytochrome P450 17A1) Polyclonal Antibody, Unconjugated (bs-6695R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=4.03]** Wilsher, Sandra, et al. "Ovarian and placental morphology and endocrine function in the pregnant giraffe (Giraffa camelopardalis)." *Reproduction* (2013). Other ;="". 23550169
- **[IF=4.2]** Zhang, Weidong, et al. "Decrease in male mouse fertility by hydrogen sulfide and/or ammonia can be inheritable." *Chemosphere* (2017). IHC ;="Mouse". 29202267
- **[IF=3.75]** Lu-ming Wu, et al. Dulaglutide, a long-acting GLP-1 receptor agonist, can improve hyperandrogenemia and ovarian function in DHEA-induced PCOS rats. *Peptides*. 2021 Nov;145:170624 WB ;Rat. 34375684

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

- **[IF=2.58]** Han, Wentao, et al. "Seasonal Expression of P450c17 and 5 α -reductase-2 in the Scented Gland of Male Muskrats (*Ondatra zibethicus*)." General and Comparative Endocrinology (2017). IHC ;="Other Species". 28919450
- **[IF=1.6]** Mendes Júnior Roberto. et al. First isolation and characterization of caprine oviduct fluid extracellular vesicles. ANIM REPROD. 2024 Oct;21:e20240039 Dot Blot ;Goat. 39494128