bs-10099R **[Primary Antibody]**

CYP11A1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1583 **SWISS:** P05108

Target: CYP11A1

Immunogen: KLH conjugated synthetic peptide derived from human CYP11A1/P450SCC: 41-140/521.

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: This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the mitochondrial inner membrane and catalyzes the conversion of cholesterol to pregnenolone, the first and rate-limiting step in the synthesis of the steroid hormones. Two transcript variants encoding different isoforms have been found for this gene. The cellular location of the smaller isoform is unclear since it lacks the mitochondrial-targeting transit peptide. [provided by RefSeq, Jul 2008]

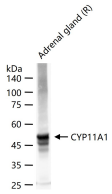
Applications: **WB** (1:500-5000)

Reactivity: Rat

Predicted MW.: 53/57 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with CYP11A1 polyclonal antibody, unconjugated (bs-10099R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

SELECTED CITATIONS

- **[IF=10.588]** Tianxin Zhao. et al. Prenatal exposure to environmentally relevant levels of PBDE-99 leads to testicular dysgenesis with steroidogenesis disorders. J Hazard Mater. 2022 Feb;424:127547 IHC ;Mouse. 10.1016/j.jhazmat.2021.127547
- **[IF=8.2]** Qingjing Gao. et al. 1,25(OH)$_2$D$_3$ 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=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,IHC ;Rat. 36323150

- **[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=4.522]** Xiao L et al. Dihydrotestosterone synthesis in the sheep corpus luteum and its potential mechanism in luteal regression. J Cell Physiol. 2019 Jan 22. WB ;Sheep. 30671954