bs-21887R **[Primary Antibody]**

SRD5A1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6715 **SWISS:** P18405

Target: SRD5A1

Immunogen: KLH conjugated synthetic peptide derived from human SRD5A1: 121-220/259.

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: Steroid 5a-Reductase is an important enzyme in androgen physiology because it catalyzes the conversion of testosterone into the more potent 5a-dihydro-testosterone, which mediates androgen effects on target tissues. The enzyme exists as two isoforms: type 1, which is expressed mainly in the skin; and type 2, which is expressed mainly in the prostate. In cultured human skin cells, 5a-Reductase 1 shows heterogeneity of protein, and has different levels of transcriptional and translational expression. 5a-Reductase 1 is expressed in all portions of the hair follicle, whereas 5a-Reductase 2 is expressed only in mesenchymal portions. In addition, 5a-Reductase 1 is mainly expressed in human breast carcinoma and may play a role in the in situ production and actions of the potent androgen 5a-dihydrotestosterone, including inhibition of cancer cell proliferation in hormone-dependent human breast carcinoma. The 5a-Reductase-3a-hydroxysteroid dehydrogenase complex is present in the human brain, suggesting that the complex may be involved in the synthesis of neuroactive steroids or the catabolism of neurotoxic steroids.

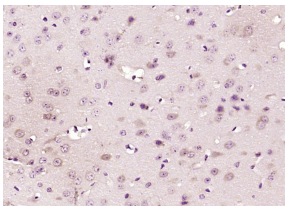
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse (predicted: Human, Rat)

Predicted MW.: 29 kDa

Subcellular Location: Cell membrane ,Cytoplasm

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 (SRD5A1) Polyclonal Antibody, Unconjugated (bs-21887R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=13.352]** Xiaoyun Wu. et al. Bisphenol B and bisphenol AF exposure enhances uterine diseases risks in mouse.

ENVIRON INT. 2023 Feb;:107858 IHC ;Mouse. 36881955

- **[IF=5.3]** Zheng Jie. et al. Decoding 11-oxygenated androgen synthesis: insights from enzyme gene expression and LC—MS/MS quantification. EUR J ENDOCRINOL. 2024 Sep;191(3):288-299 IHC ;Human. 39219353