

**bs-3570R****[ Primary Antibody ]****StAR Rabbit pAb****Bioss**  
ANTIBODIES

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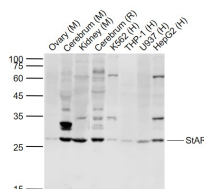
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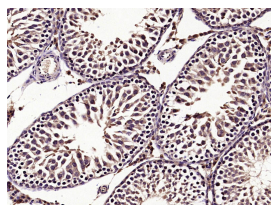
400-901-9800

**DATASHEET**

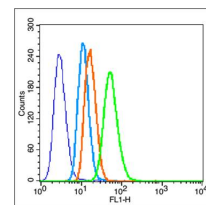
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500) <b>Flow-Cyt</b> (3µg /Test)  <b>Reactivity:</b> Human, Mouse, Rat (predicted: Cow, Dog, Horse)  <b>Predicted MW.:</b> 32 kDa  <b>Subcellular Location:</b> Cytoplasm
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 6770	<b>SWISS:</b> P49675	
<b>Target:</b> StAR		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human StAR/StARD1: 101-200/285.		
<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> The protein encoded by this gene plays a key role in the acute regulation of steroid hormone synthesis by enhancing the conversion of cholesterol into pregnenolone. This protein permits the cleavage of cholesterol into pregnenolone by mediating the transport of cholesterol from the outer mitochondrial membrane to the inner mitochondrial membrane. Mutations in this gene are a cause of congenital lipid adrenal hyperplasia (CLAH), also called lipid CAH. A pseudogene of this gene is located on chromosome 13. [provided by RefSeq, Jul 2008].		

**VALIDATION IMAGES**

Sample: Lane 1: Ovary (Mouse) Lysate at 40 ug  
Lane 2: Cerebrum (Mouse) Lysate at 40 ug  
Lane 3: Kidney (Mouse) Lysate at 40 ug  
Lane 4: Cerebrum (Rat) Lysate at 40 ug  
Lane 5: K562 (Human) Cell Lysate at 30 ug  
Lane 6: THP-1 (Human) Cell Lysate at 30 ug  
Lane 7: U937 (Human) Cell Lysate at 30 ug  
Lane 8: HepG2 (Human) Cell Lysate at 30 ug  
Lane 9: Primary: Anti-StAR (bs-3570R) at 1/1000 dilution  
Lane 10: Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 32 kD  
Observed band size: 28 kD



Paraformaldehyde-fixed, paraffin embedded (Rat testis); Antigen retrieval by microwave in sodium citrate buffer (pH6.0); Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (StAR) Polyclonal Antibody, Unconjugated (bs-3570R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.



Blank control (blue line): HeLa (fixed with 80% methanol (5 min at -20°C) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature). Primary Antibody (green line): Rabbit Anti-StAR antibody (bs-3570R), Dilution: 3µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC, Dilution: 1µg /test.

**SELECTED CITATIONS**

- **[IF=10.7]** Yi Zhao. et al. SLC7A11 as a therapeutic target to attenuate phthalates-driven testosterone level decline in mice. J ADV RES. 2024 May;; WB ;Mouse. 38797476
- **[IF=6.54]** Cook et al. Ethanol alters local cellular levels of (3α,5α)-3-hydroxypregnan-20-one (3α,5α-THP) independent of the adrenals in subcortical brain regions. (2014) Neuropsychopharmacology. 39:1978-87 IF ;Rat. 24566803
- **[IF=5.6]** Haoran Xu. et al. Melatonin Inhibits Testosterone Synthesis in Rooster Leydig Cells by Targeting CXCL14 through miR-7481-3p. INT J MOL SCI. 2023 Jan;24(23):16552 WB ;Chicken. 38068875

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

- **[IF=5.572]** Ozge Goktepe. et al. The effect of different doses of nonylphenol on the blood-testicular barrier integrity, hormone level, and DNA damage in the testes of rats. FOOD CHEM TOXICOL. 2023 Jul;177:113816 IHC ;Rat. 37164249
- **[IF=4.8]** Wenjing Lu. et al. Vitamin D status alters genes involved in ovarian steroidogenesis in muskrat granulosa cells. BBA-MOL CELL BIOL L. 2024 May;1869:159469 IHC ;Muskrat. 38402945