

**bs-3899R****[ Primary Antibody ]****Bioss**  
ANTIBODIES

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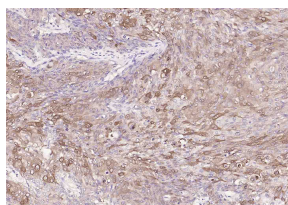
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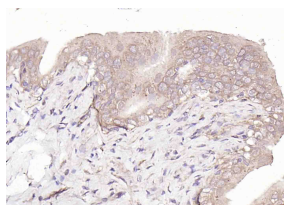
400-901-9800

**CYP24A1 Rabbit pAb****DATASHEET**

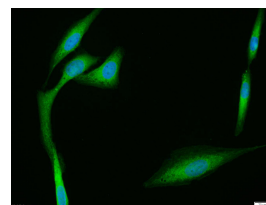
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) ICC/IF (1:100)  <b>Reactivity:</b> Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Chicken, Dog, Horse)  <b>Predicted MW.:</b> 55 kDa  <b>Subcellular Location:</b> Cytoplasm
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 1591	<b>SWISS:</b> Q07973	
<b>Target:</b> CYP24A1		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human CYP24A1: 351-450/514.		
<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> CYP24A1 (cytochrome P450, family 24, subfamily A, polypeptide 1) is a member of the cytochrome P450 superfamily. It is a mitochondrial enzyme responsible for inactivating vitamin D3 metabolites through the C-24 oxidation pathway. In regulating the level of vitamin D3, CYP24A1 plays a role in calcium homeostasis and the vitamin D endocrine system. CYP24A1 also has a role in maintaining calcium homeostasis. It catalyzes the NADPH- dependent 24-hydroxylation of 25-hydroxyvitamin D(3) in the presence of adrenodoxin and NADPH-adrenodoxin reductase.		

**VALIDATION IMAGES**

Paraformaldehyde-fixed, paraffin embedded (human kidney carcinoma); 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; Incubation with (CYP24A1) Polyclonal Antibody, Unconjugated (bs-3899R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat bladder); 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; Incubation with (CYP24A1) Polyclonal Antibody, Unconjugated (bs-3899R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



U-2OS cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (CYP24A1) polyclonal Antibody, Unconjugated (bs-3899R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

**SELECTED CITATIONS**

- **[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
- **[IF=4.2]** Juan Yang. et al. Electrochemiluminescence resonance energy transfer between Ru-ZnMOF self-enhanced luminophore and a double quencher ZnONF@PDA to detect NSE. ANALYST. 2023 Aug; Other ;. 37585262