bs-3899R

[Primary Antibody]

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CYP24A1 Rabbit pAb

DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GenelD: 1591 SWISS: Q07973

Target: CYP24A1

Immunogen: KLH conjugated synthetic peptide derived from human CYP24A1:

351-450/514.

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: 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 NADPHdependent 24-hydroxylation of 25-hydroxyvitamin D(3) in the presence of adrenodoxin and NADPH-adrenodoxin reductase.

Applications: IHC-P (1:100-500)

IHC-F (1:100-500) **IF** (1:100-500) ICC/IF (1:100-500)

Reactivity: Human, Mouse, Rat

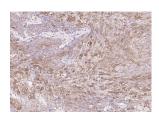
(predicted: Rabbit, Pig, Cow, Chicken, Dog, Horse)

Predicted 55 kDa

MW.:

Subcellular Cytoplasm Location:

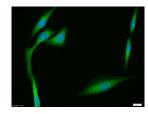
VALIDATION IMAGES



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.

— SFI FCTFD 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