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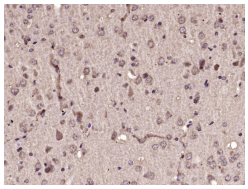
CYP24A1 Rabbit pAb

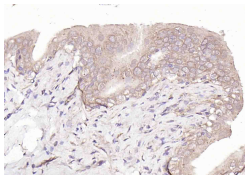
Catalog Number:	bs-3899R
Target Protein:	CYP24A1
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), ICC/IF (1:100)
Reactivity:	Human, Mouse, Rat (predicted:Rabbit, Pig, Cow, Chicken, Dog, Horse)
Predicted MW:	55 kDa
Entrez Gene:	1591
Swiss Prot:	Q07973
Source:	KLH conjugated synthetic peptide derived from human CYP24A1: 351-450/514.
Purification:	affinity purified by Protein A
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 NADPH-dependent 24-hydroxylation of 25-hydroxyvitamin D(3) in the presence of adrenodoxin and NADPH-adrenodoxin reductase.

VALIDATION IMAGES

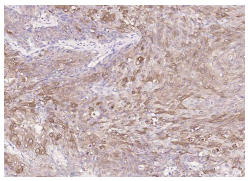


Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (CYP24A1) Polyclonal Antibody, Unconjugated (bs-3899R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.

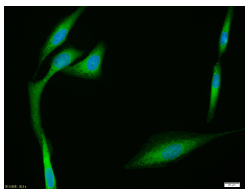
Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



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) instructionsand DAB staining.



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) instructionsand 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.

PRODUCT SPECIFIC PUBLICATIONS

[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

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