DATASHEET

CYP24A1 Rabbit Polyclonal Antibody

CAT. NO. ARA5793

KEY FEATURES

Target	CYP24A1	**Source / Host**	Rabbit
Reactivity	Mouse, Rat	**Clonality**	Polyclonal
Applications	WB,IHC	**Conjugation**	Unconjugated
Isotype	IgG	**Storage**	at -20°C

BACKGROUND

This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This mitochondrial protein initiates the degradation of 1,25-dihydroxyvitamin D3, the physiologically active form of vitamin D3, by hydroxylation of the side chain. In regulating the level of vitamin D3, this enzyme plays a role in calcium homeostasis and the vitamin D endocrine system. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:1,000 - 1:2,000
IHC	1:50 - 1:100

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Rabbit polyclonal antibody to CYP24A1 for WB and IHC.
Specificity	Recognizes endogenous levels of CYP24A1 protein.
Immunogen	Recombinant protein within human CYP24A1 aa 50-250.
Molecular Weight	Predicted: 59 kDa; Observed: 59 kDa
Purification	Immunogen affinity purification
Isotype	IgG
Form/Buffer	Liquid in TBS (pH 7.4) with 0.2% BSA, 50% glycerol and 0.05% sodium azide.
Subcellular Location	Mitochondrion.
Alternative Names	1,25-dihydroxyvitamin D(3) 24-hydroxylase, 24-OHase, CP24, CYP24, HCAI, HCINF1, P450-CC24
Gene Symbol	CYP24A1
Entrez Gene	1591 (Human); 13081 (Mouse); 25279 (Rat)
SwissProt	Q07973 (Human); Q64441 (Mouse); Q09128 (Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

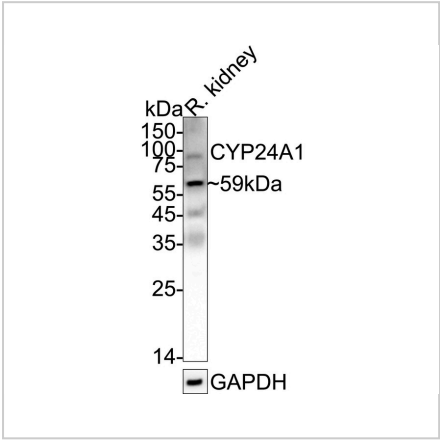
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

CYP24A1 Rabbit Polyclonal Antibody

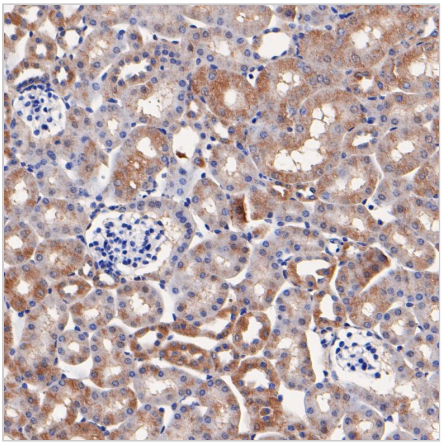
CAT. NO. ARA5793

DATA



Western blot analysis of CYP24A1 on rat kidney tissue lysates with CYP24A1 Rabbit Polyclonal Antibody at 1:5,000 dilution. Lysates/proteins at 40 µg/Lane.

Predicted band size: 59 kDa
Observed band size: 59 kDa
Exposure time: 25 seconds. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1:5,000 dilution was used at 4°C overnight. HRP-conjugated Goat Anti-Rabbit IgG (H+L) at 1:50,000 dilution was used for 1 hour at room temperature.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue with CYP24A1 Rabbit Polyclonal Antibody at 1:400 dilution. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature and then probed with the primary antibody for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com