

ARG44590 anti-CYP3A4 antibody

Package: 100 µl

Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CYP3A4
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CYP3A4
Species	Human
Immunogen	Recombinant protein of human CYP3A4 (a.a. 244-503).
Conjugation	Un-conjugated
Alternate Names	CYP3A4; Cytochrome P450 Family 3 Subfamily A Member 4; CYP3A3; Cytochrome P450, Subfamily IIIA (Niphedipine Oxidase), Polypeptide 4; Cytochrome P450, Family 3, Subfamily A, Polypeptide 4; Albendazole Monooxygenase (Sulfoxide-Forming); 1,4-Cineole 2-Exo-Monooxygenase; 1,8-Cineole 2-Exo-Monooxygenase; Cholesterol 25-Hydroxylase; Albendazole Sulfoxidase; Quinine 3-Monooxygenase; Cytochrome P450 NF-25; Cytochrome P450-PCN1; Cytochrome P450 3A4; Cytochrome P450 3A3; Cytochrome P450 HLP; Nifedipine Oxidase; EC 1.14.14.1; CYP11A3; CYP11A4; Cytochrome P450, Subfamily IIIA (Niphedipine Oxidase), Polypeptide 3; Taurochenodeoxycholate 6-Alpha-Hydroxylase; Glucocorticoid-Inducible P450; P450-III, Steroid Inducible; EC 1.14.14.56; EC 1.14.14.73; EC 1.14.14.55; P450PCN1; P450C3; CYP3A; NF-25; VDDR3; CP33; CP34; HLP

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:100
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

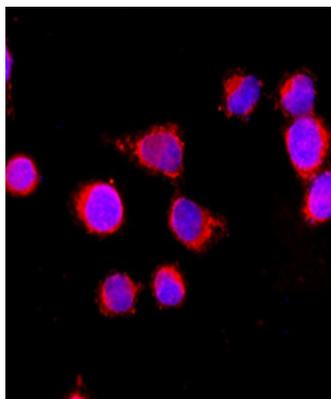
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

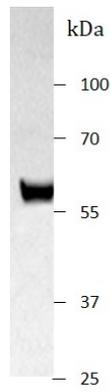
Gene Symbol	CYP3A4
Gene Full Name	Cytochrome P450 Family 3 Subfamily A Member 4
Background	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases that catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and its expression is induced by glucocorticoids and some pharmacological agents. This enzyme is involved in the metabolism of approximately half the drugs in use today, including acetaminophen, codeine, cyclosporin A, diazepam, erythromycin, and chloroquine. The enzyme also metabolizes some steroids and carcinogens. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Previously another CYP3A gene, CYP3A3, was thought to exist; however, it is now thought that this sequence represents a transcript variant of CYP3A4. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2020]
Function	Also involved in vitamin D catabolism and calcium homeostasis. Catalyzes the inactivation of the active hormone calcitriol (1- α ,25-dihydroxyvitamin D ₃). [UniProt]
Calculated Mw	57 kDa
PTM	Ubl conjugation
Cellular Localization	Endoplasmic reticulum, Membrane, Microsome. [UniProt]

Images



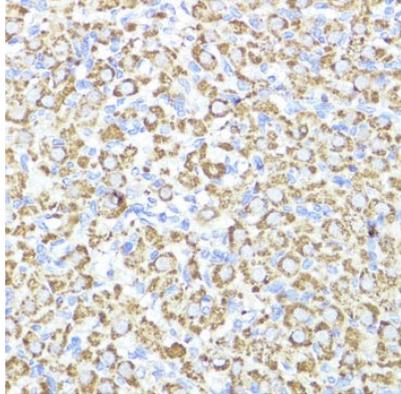
ARG44590 anti-CYP3A4 antibody ICC/IF image

Immunofluorescence: HeLa stained with ARG44590 anti-CYP3A4 antibody at 1:100 dilution.



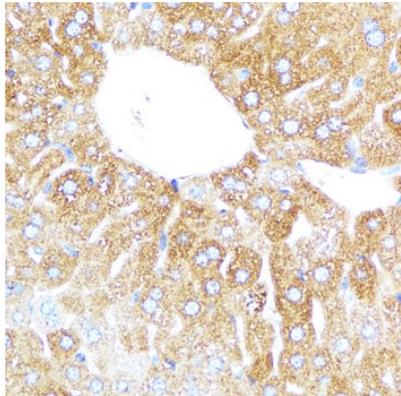
ARG44590 anti-CYP3A4 antibody WB image

Western blot: 293F cells transfected with CYP3A4 stained with ARG44590 anti-CYP3A4 antibody at 1:1000 dilution.



ARG44590 anti-CYP3A4 antibody IHC-P image

Immunohistochemistry: Rat ovary stained with ARG44590 anti-CYP3A4 antibody at 1:100 dilution.



ARG44590 anti-CYP3A4 antibody IHC-P image

Immunohistochemistry: Mouse liver stained with ARG44590 anti-CYP3A4 antibody at 1:100 dilution.