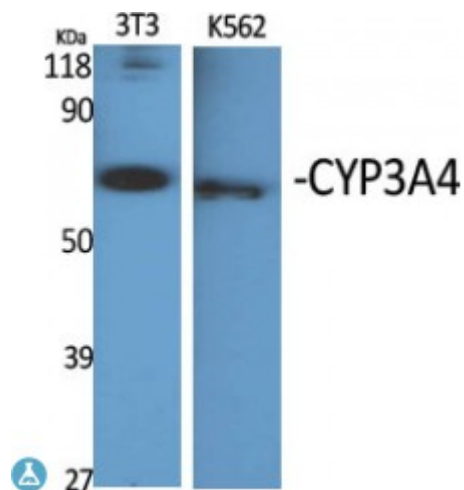


Anti-CYP3A4 antibody



Description	Rabbit polyclonal to CYP3A4.
Model	STJ92593
Host	Rabbit
Reactivity	Human
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human CYP3A4
Immunogen Region	60-140 aa, Internal
Gene ID	1576
Gene Symbol	CYP3A4
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:5000
Specificity	CYP3A4 Polyclonal Antibody detects endogenous levels of CYP3A4 protein.
Tissue Specificity	Expressed in prostate and liver. According to some authors, it is not expressed in brain . According to others, weak levels of expression are measured in some brain locations . Also expressed in epithelium of the small intestine and large intestine, bile duct, nasal mucosa, kidney, adrenal cortex, epithelium of the gastric mucosa with intestinal metaplasia, gallbladder, intercalated ducts of the pancreas, chief cells of the parathyroid and the corpus luteum of the ovary (at protein level).
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).

Protein Name	Cytochrome P450 3A4 1,8-cineole 2-exo-monooxygenase Albendazole monooxygenase Albendazole sulfoxidase CYP3A3 CYP3A4 Cholesterol 25-hydroxylase Cytochrome P450 3A3 Cytochrome P450 HLp Cytochrome P45
Molecular Weight	57 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:2637OMIM:124010
Alternative Names	Cytochrome P450 3A4 1,8-cineole 2-exo-monooxygenase Albendazole monooxygenase Albendazole sulfoxidase CYP3A3 CYP3A4 Cholesterol 25-hydroxylase Cytochrome P450 3A3 Cytochrome P450 HLp Cytochrome P45
Function	Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It performs a variety of oxidation reactions (e.g. caffeine 8-oxidation, omeprazole sulfoxidation, midazolam 1'-hydroxylation and midazolam 4-hydroxylation) of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. Acts as a 1,8-cineole 2-exo-monooxygenase. The enzyme also hydroxylates etoposide . Catalyzes 4-beta-hydroxylation of cholesterol. May catalyze 25-hydroxylation of cholesterol in vitro .
Cellular Localization	Endoplasmic reticulum membrane. Single-pass membrane protein. Microsome membrane {ECO:0000269 PubMed:21576599}. Single-pass membrane protein.
Post-translational Modifications	Polyubiquitinated in the presence of AMFR and UBE2G1 and also STUB1/CHIP and UBE2D1 (in vitro).