

CYP3A4 (D9U6N) Rabbit mAb

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #P08684	Entrez-Gene Id: 1576
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Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

CYP3A4 (D9U6N) Rabbit mAb recognizes endogenous levels of total CYP3A4 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CYP3A4 protein.

Background

Cytochrome P450, subfamily 3A, polypeptide 4 (CYP3A4) is a mono-oxygenase enzyme (1) found in the endoplasmic reticulum membrane of liver and prostate microsomes. It is an important enzyme in drug metabolism; it catalyzes phase I oxidation reactions in approximately 50% of drugs in the modern market, as well as steroids, fatty acids, and some carcinogens (2). It is also involved in steroid and cholesterol synthesis (3,4). Expression of CYP3A4 can be induced by glucocorticoids, carcinogens, pesticides, and drugs, which can lead to drug interactions and toxicity (5).

Background References

1. Gupta, R.P. et al. (2004) *J Bone Miner Res* 19, 680-8.
2. Lynch, T. and Price, A. (2007) *Am Fam Physician* 76, 391-6.
3. Pikuleva, I.A. (2006) *Pharmacol Ther* 112, 761-73.
4. Tompkins, L.M. and Wallace, A.D. (2007) *J Biochem Mol Toxicol* 21, 176-81.
5. Thummel, K.E. and Wilkinson, G.R. (1998) *Annu Rev Pharmacol Toxicol* 38, 389-430.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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