

CYP17A1 (E6Y3S) Rabbit mAb

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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #P05093	Entrez-Gene Id: 1586
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
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	CYP17A1 (E6Y3S) Rabbit mAb recognizes endogenous levels of total CYP17A1 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu433 of human CYP17A1 protein.	
Background	CYP17A1, also known as cytochrome P450C17, is a steroidogenic enzyme belonging to the P450 cytochrome superfamily of monooxygenases (1, 2). In humans, CYP17A1 expression is abundantly expressed in the adrenal cortex, where it plays a central role in the androgen synthesis pathway (2). CYP17A1 is the primary target of abiraterone, a synthetic steroid used in the treatment of castration-resistant prostate cancer (CRPC) (3, 4). Abiraterone is converted to the more active form D4A, which antagonizes androgen receptor signaling by inhibiting CYP17A1 and other steroidogenic enzymes (3, 4). This suppresses the synthesis of 5α-dihydrotestosterone (DHT), which is a driver of castration-resistant prostate cancer cell growth (3, 4).	
Background References	<ol style="list-style-type: none"> 1. Missaghian, E. et al. (2009) <i>J Endocrinol</i> 202, 99-109. 2. Tee, M.K. and Miller, W.L. (2013) <i>J Biol Chem</i> 288, 23903-13. 3. Li, Z. et al. (2015) <i>Nature</i> 523, 347-51. 4. Thoma, C. (2015) <i>Nat Rev Urol</i> 12, 363. 	
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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting IP: Immunoprecipitation	
Cross-Reactivity Key	H: Human M: Mouse R: Rat	
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