## ខ្លួ CYP17A1 (E6A7G) XP<sup>®</sup> Rabbit mAb





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

Applications: W, IP, IF-F	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 55	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P05093	Entrez-Gene Id: 1586		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence (Frozen)			<b>Dilution</b> 1:1000 1:50 1:200			
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less thar 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				ol and less than			
	For a carrier free (BSA and azide free) version of this product see product #49449.							
Specificity/Sen	sitivity	CYP17A1 (E6A7G) XP $^{ extsf{8}}$ 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 Val377 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 $5\alpha$ -dihydrotestosterone (DHT), which is a driver of castration-resistant prostate cancer cell growth (3, 4).						
Background Re	eferences	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 Reactiv	vity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	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 K	ey	W: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)						
Cross-Reactivit	су Кеу	H: Human M: Mouse R: Rat						
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