

CYP11A1 Antibody



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit	UniProt ID: #P05108	Entrez-Gene Id: 1583
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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		CYP11A1 Antibody recognizes endogenous levels of total CYP11A1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human CYP11A1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		synthesized from the cocytochrome P450 hydroproduction of most sterenzymes encoded by the chain cleavage enzyme steroidogenesis, converties of the converties of the chain cleavage enzyme steroidogenesis, converties of the conver	ommon precursor oxylase enzymes (proids. There are sine steroidogenic of the steroidogenic of	enal cortex, testis, ovary, cholesterol. Two familie CYP) and hydroxysteroid x distinct steroid hydrox CYP gene family (1). The context and the context are stated in the context are successive oxidation (2), CYP11A1 expression is a context and the context are successive oxidation (2), CYP11A1 expression is a context are successive oxidation (3).	es of steroidogenic d dehydrogenases (sylases, which are co cytochrome P450sc and rate-limiting ste crates with two coel reduction reaction s regulated by the coay a central role in ls of the adrenal co	enzymes, HSD), catalyze the ytochrome P450 c (cholesterol side- ep in nzymes, ferredoxin as of cholesterol (3- AMP-PKA pathway mediating the rtex and gonads (7).
Background Refe	Defects in CYP11A1 are the cause of adrenal insufficiency congenital with 46, XY sex revers which is a rare disorder that can present as acute adrenal insufficiency in infancy or childhold cound References 1. Nelson, D.R. et al. (1993) DNA Cell Biol 12, 1-51. 2. Richards, J.S. et al. (1987) Recent Prog Horm Res 43, 231-76. 3. Hanukoglu, I. and Jefcoate, C.R. (1980) J Biol Chem 255, 3057-61. 4. Hanukoglu, I. et al. (1981) J Biol Chem 256, 4329-35. 5. Hanukoglu, I. et al. (1981) J Biol Chem 256, 4321-8. 6. Hu, M.C. et al. (1991) Biochem J 274 (Pt 3), 813-7. 7. Watanabe, N. et al. (1994) Eur J Biochem 222, 825-34. 8. Tajima, T. et al. (2001) J Clin Endocrinol Metab 87, 3808-13.					
Species Reactivit	V	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).

Species Reactivity

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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