For Research Use Only

CYP17A1 Polyclonal antibody Catalog Number:14447-1-AP (48 Publications



Basic Information	Catalog Number: 14447-1-AP	GenBank Accession Number: BC062997		Purification Method: Antigen affinity purification		
	Concentration: 700 ug/ml	GenelD (NCBI): 1586		Recommended Dilutions: WB 1:2000-1:12000		
	Source: Rabbit	UNIPROT ID: P05093 Full Name: cytochrome P450, family 17, subfamily A, polypeptide 1		IHC 1:100-1:400 IF/ICC 1:20-1:200		
	Isotype: IgG Immunogen Catalog Number: AG5899					
		Calculated MW: 57 kDa	Calculated MW: 57 kDa			
		Observed MW: 50-57 kDa				
Applications	Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	ed Applications: Positive (HC, IF/ICC, FC (Intra), ELISA			controls:	
	Cited Applications:cells, HeWB, IHC, IFbrain ti:Species Specificity:IHC : hu		cells, HepG2 brain tissue	HepG2 cells, mouse adrenal gland tissue, mouse tissue		
			IHC : human	an prostate cancer tissue,		
	human, mouse, rat IF/ICC : I			lepG2 cells,		
	human, mouse, rat, pig					
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0					
Background Information	The human cytochrome P450c17 enzyme is encoded by the CYP17A1 gene. It is the qualitative regulator of steroidogenesis in the human adrenals. In its absence, aldosterone is produced in the human adrenal zona glomerulosa .The CYP17A1 gene is expressed in the adrenal cortex and the gonads but not in the placenta (PMID;19403566). Although CYP17A1 has been shown to be a 50-kDa protein, the presence of a lower molecular mass(30 kDa) immunoreactive form in rat Leydig cells was previously shown and it is either a degradation product or a truncated form of the 50 kDa enzyme(PMID:15761033). Defects in CYP17A1 are the cause of adrenal hyperplasia type 5 (AH5) and CYP17A1 is an important target for inhibition in the treatment of prostate cancer (PMID 27505042, PMID 27505042).					
Notable Publications	Author	Pubmod ID lou	urnal		Application	
	Yanyan 7hao	361523/7 Bio	arnat Annat	Commun	нс	
	Yan Peng	33109277 Bio	al Res	Commun	WB	
	Jun Li	36338128 Fro	ont Bioeng Biotech	nol	WB,IF	
Storage	Storage: Storage Luffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage					
For tachnical support and privingly validation of	Aliquoting is unnecessary for -20	°C storage	This product is	ovelucivolu pupi		

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sively Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14447-1-AP (CYP17A1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells, using CYP17A1 antibody 14447-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



1x10^6 HepG2 cells were intracellularly stained with 0.4 ug CYP17A1 Polyclonal antibody (14447-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 14447-1-AP (CYP17A1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 14447-1-AP (CYP17A1 Antibody) at dilution of 1:200 (under 40x lens).