

For Research Use Only

CYP17A1 Recombinant antibody, PBS Only

Catalog Number: 85690-5-PBS



Basic Information

Catalog Number: 85690-5-PBS	GenBank Accession Number: BC062997	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 1586	CloneNo.: 243076D8
Source: Rabbit	UNIPROT ID: P05093	
Isotype: IgG	Full Name: cytochrome P450, family 17, subfamily A, polypeptide 1	
Immunogen Catalog Number: AG5899	Calculated MW: 57 kDa	
	Observed MW: 50-57 kDa	

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
human, mouse, rat

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).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

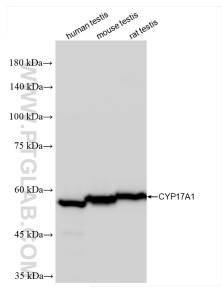
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

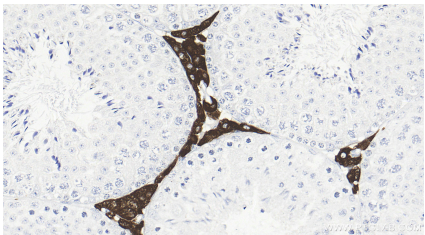
Selected Validation Data



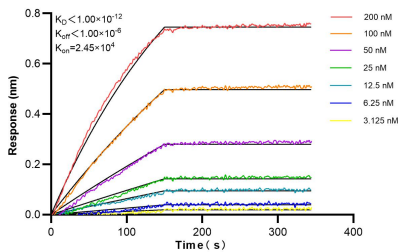
Various lysates were subjected to SDS PAGE followed by western blot with 85690-5-RR (CYP17A1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85690-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 85690-5-RR (CYP17A1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 85690-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 85690-5-RR (CYP17A1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 85690-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 85690-5-RR against Human CYP17A1 were performed. The affinity constant is below 1 pM.