

CYP17A1 Recombinant antibody

Catalog Number: 85690-5-RR

Basic Information

Catalog Number:

85690-5-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5899

GenBank Accession Number:

BC062997

GeneID (NCBI):

1586

UNIPROT ID:

P05093

Full Name:

cytochrome P450, family 17,
subfamily A, polypeptide 1

Calculated MW:

57 kDa

Observed MW:

50-57 kDa

Purification Method:

Protein A purification

CloneNo.:

243076D8

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:250-1:1000

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with
TE buffer pH 9.0; (*) Alternatively, antigen
retrieval may be performed with citrate
buffer pH 6.0**

Positive Controls:

WB : human testis tissue, mouse testis tissue, rat testis
tissue

IHC : mouse testis tissue,

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:

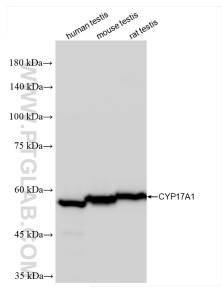
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



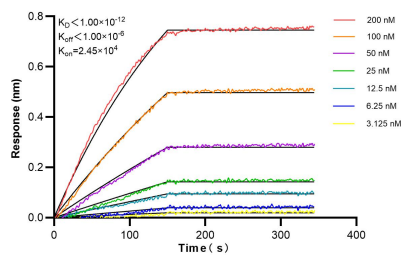
Various lysates were subjected to SDS PAGE followed by western blot with 85690-5-RR (CYP17A1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).



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).



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