

For Research Use Only

CYP51A1 Recombinant antibody

Catalog Number: 84705-4-RR



Basic Information

Catalog Number:

84705-4-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4235

GenBank Accession Number:

BC032322

GeneID (NCBI):

1595

UNIPROT ID:

Q16850

Full Name:

cytochrome P450, family 51, subfamily A, polypeptide 1

Calculated MW:

509 aa, 57 kDa

Observed MW:

56 kDa

Purification Method:

Protein A purification

CloneNo.:

242166G9

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HeLa cells, HepG2 cells, HuH-7 cells, HEK-293 cells, RAW 264.7 cells, mouse testis tissue, rat liver tissue

Background Information

Lanosterol 14-alpha demethylase (cytochrome P450(51), CYP51A1) belongs to the evolutionarily conserved family of cytochrome P450 and catalyzes one of the key steps in cholesterol biosynthesis. CYP51A1 protein is targeted for degradation when exposed to nitric oxide generated under inflammatory conditions by NOS2 or released from NO donor compounds (PMID: 28830911). CYP51A1 is a prognostic marker in certain cancers, including Cervical squamous cell carcinoma, Head and neck squamous cell carcinoma, Kidney chromophobe, and Kidney renal clear cell carcinoma (PMID: 24711211).

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

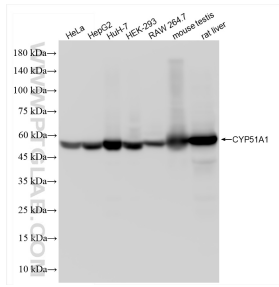
T: 4006900926

E: Proteintech-CN@ptglab.com

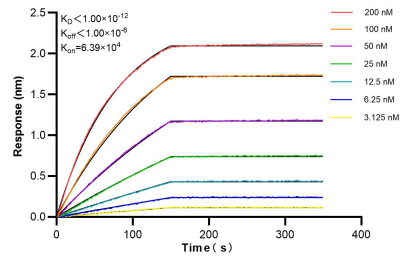
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84705-4-RR (CYP51A1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 84705-4-RR against Human CYP51A1 were performed. The affinity constant is below 1 pM.