

For Research Use Only

CYP51A1 Recombinant antibody

Catalog Number: 84705-4-RR



Basic Information

Catalog Number: 84705-4-RR	GenBank Accession Number: BC032322	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 1595	CloneNo.: 242166G9
Source: Rabbit	UNIPROT ID: Q16850	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG	Full Name: cytochrome P450, family 51, subfamily A, polypeptide 1	
Immunogen Catalog Number: AG4235	Calculated MW: 509 aa, 57 kDa	
	Observed MW: 56 kDa	

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

*** 20ul sizes contain 0.1% BSA

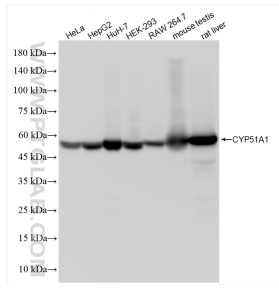
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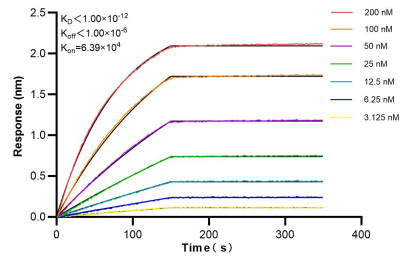
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Selected Validation Data



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.