

For Research Use Only

CYP51A1 Recombinant antibody, PBS Only

Catalog Number: 84705-4-PBS



Basic Information

Catalog Number: 84705-4-PBS	GenBank Accession Number: BC032322	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 1595	CloneNo.: 242166G9
Source: Rabbit	UNIPROT ID: Q16850	
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, Indirect ELISA

Species Specificity:
human, mouse, rat

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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

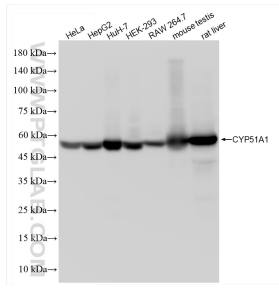
T: 4006900926

E: Proteintech-CN@ptglab.com

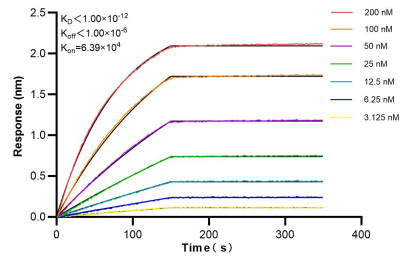
W: ptgcn.com

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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. This data was developed using the same antibody clone with 84705-4-PBS in a different storage buffer formulation.



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