

For Research Use Only

# CYP51A1 Recombinant antibody, PBS Only

Catalog Number: 84705-4-PBS



## Basic Information

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

**Storage Buffer:**  
PBS Only

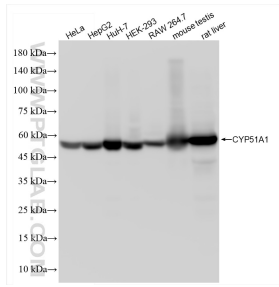
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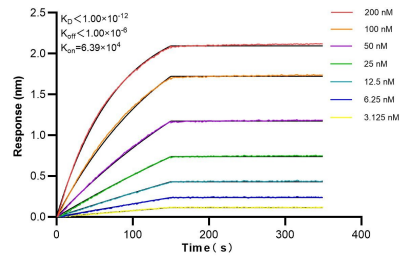
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## Selected Validation Data



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. 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.