

For Research Use Only

CYP1A1 Recombinant monoclonal antibody

Catalog Number: 88462-1-RR



Basic Information

Catalog Number: 88462-1-RR	GenBank Accession Number: BC023019	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 1543	CloneNo.: 261000F5
Isotype: IgG	UNIPROT ID: P04798	Recommended Dilutions: WB: 1:5000-1:50000
Immunogen Catalog Number: AG3990	Full Name: cytochrome P450, family 1, subfamily A, polypeptide 1	
	Calculated MW: 512 aa, 58 kDa	
	Observed MW: 50-58 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB: mouse liver tissue, mouse lung tissue, rat liver tissue

Background Information

CYP1A1 is a phase I xenobiotic-metabolizing enzyme that bioactivates environmental procarcinogens, particularly polycyclic aromatic hydrocarbons (PAHs), into reactive intermediates that can initiate carcinogenesis. Its expression is primarily regulated at the transcriptional level by the aryl hydrocarbon receptor (AHR), which upon ligand binding induces CYP1A1 via xenobiotic response elements. Genetic polymorphisms in the human CYP1A1 gene have been linked to increased susceptibility to lung and other cancers.

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

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

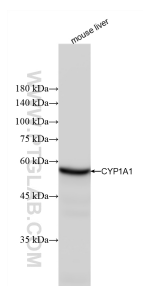
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



mouse liver tissue were subjected to SDS PAGE followed by western blot with 88462-1-RR (CYP1A1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.