For Research Use Only

CYP1A1 Recombinant monoclonal antibody, PBS Only

Catalog Number:88462-1-PBS

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Basic Information

Catalog Number:
88462-1-PBS

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3990

GenBank Accession Number:
BC023019

GeneID (NCBI):
1543

UNIPROT ID:
P04798

Full Name:
cytochrome P450, family 1, subfamily A, polypeptide 1

Calculated MW:
512 aa, 58 kDa

Observed MW:
50-58 kDa

Purification Method:
Protein A purification

CloneNo.:
261000F5

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

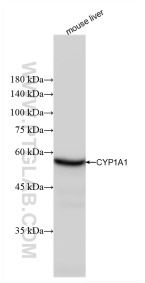
CYP1A1 is a phase I xenobiotic-metabolizing enzyme that bioactivates environmental procarcinogens, particularly polycyclic aromatic hydrocarbons (PAHs), into reactive intermediates that can initiate carcinogenesis. Its expression is primarily regulated at the transcriptional level by the aryl hydrocarbon 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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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. This data was developed using the same antibody clone with 88462-1-PBS in a different storage buffer formulation.

mouse lung 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.