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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB11171 - Goat Anti-Cytochrome P450 1A2 (mouse) Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: aromatic compound inducible, CP12, Cyp1a1, CYPIA2, cytochrome P450 1A2, cytochrome P450 family 1 subfamily a polypeptide 1, cytochrome P450, 1a2, aromatic compound inducible, cytochrome P450, family 1, subfamily A, polypeptide 2, cytochrome P450-P2, cytochrome P450-P3, P450-3, Cyp1a2

Official Symbol: Cyp1a2

Accession Number(s): NP_034123.1

Non-Human GeneID(s): 13077 (mouse), 24297 (rat)

Important Comments: This antibody is not expected to cross-react to the similar P450 1A1.

Immunogen

Peptide with sequence C-HSENYKDNGGLIPEEK, from the internal region of the protein sequence according to NP_034123.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:32000.

Western blot: Approx 60kDa band observed in Mouse fetal Liver lysates and approx. 55kDa in Human Liver and Lung lysates (calculated MW of 58.4kDa according to Human NP_000752.2 and 58.2kDa according to Mouse NP_034123.1). Recommended concentration: 0.3-1µg/ml. Primary incubation was 1 hour. This antibody has been successfully used in WB on Rat Liver lysates, PMID: 35094979.

Species Reactivity

Tested: Human, Mouse, Rat

Expected from sequence similarity: Mouse, Rat

Specific Reference

This antibody has been successfully used in Western blot on Rat:

James R Reed, Jessie J Guidry, Wayne L Backes

Proteomic and Bioinformatics Analysis of Membrane Lipid Domains after Brij 98

Solubilization of Uninduced and Phenobarbital-Induced Rat Liver Microsomes: Defining the Membrane Localization of the P450 Enzyme System

Drug Metab Dispos. 2022 Apr;50(4):374-385.

PMID: 35094979

EB11171 (1µg/ml) staining of fetal Mouse Liver lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB11171 (0.5µg/ml) staining of Human Liver (A) and (1ug/ml) Lung (B) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.