

International Office

Everest Biotech Ltd

Vector Laboratories, Inc. 6737 Mowry Ave Newark, CA 94560 United States

Customer Service:

customerservice@vectorlabs.com

Technical Service:

technical@vectorlabs.com

Tel: +1 (800) 227-6666

www.everestbiotech.com

Research Use Only. Not for diagnostic or therapeutic use.

EB11173 - Goat Anti-cytochrome P450 1A1 (mouse) Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: AHH, AHRR, aromatic compound inducible, CP11, Cyp1a2, CYPIA1, cytochrome P450 1A1, cytochrome P450 family 1 subfamily a polypeptide 2, cytochrome P450 subfamily I, polypeptide 1, cytochrome P450, 1a1, aromatic compound inducible, cytochrome P450, family 1, subfamily A, polypeptide 1, cytochrome P450-P1, P450-1, cyp1a1

Official Symbol: cyp1a1

Accession Number(s): NP_001129531.1

Non-Human GenelD(s): 13076 (mouse), 24296 (rat)

Important Comments: This antibody is not expected to cross-react with the similar P450

1A2

Immunogen

Peptide with sequence C-QDRKLDENANVQLSD, from the internal region of the protein sequence according to NP_001129531.1.

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 1:64000.

Western blot: Approx 55kDa band observed in Human and Rat Lung lysates (calculated MW of 58.2kDa according to Human NP_000490.1 and 59.4kDa according to Rat NP_036672.). Primary incubation was 1 hour. Recommended concentration: 0.1-0.3μg/ml.

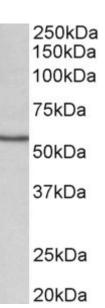
IHC: Paraffin embedded Human Tonsil. Recommended concentration: 10µg/ml.

Immunofluorescence: Strong expression of the protein seen in the ER and cytoplasm of NIH3T3 cells. Recommended concentration: 10µg/ml.

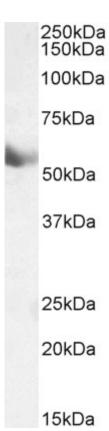
Species Reactivity

Tested: Human, Mouse, Rat

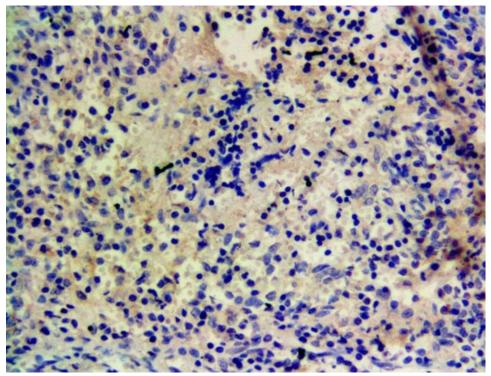
Expected from sequence similarity: Mouse, Rat



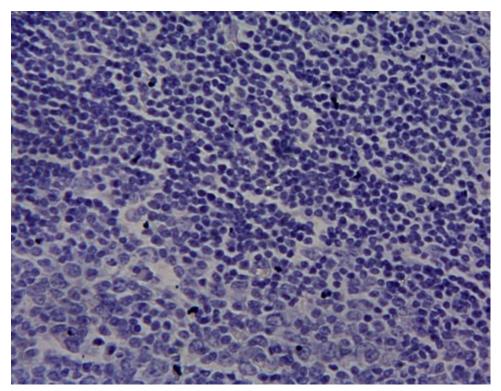
EB11173 (0.1µg/ml) staining of Rat Lung lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



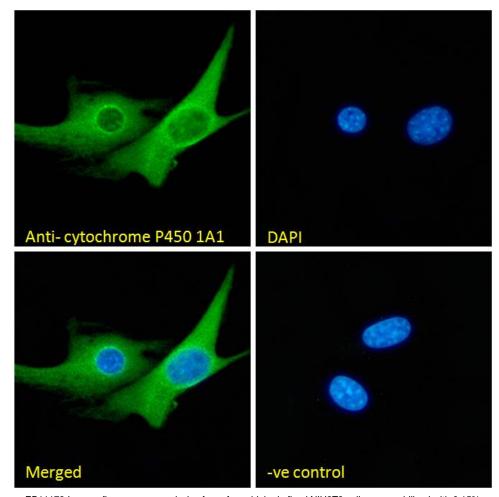
EB11173 (0.1 μ g/ml) staining of Human Lung lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



EB11173 Staining of paraffin embedded Human Tonsil. Heat induced antigen retrieval with Tris-EDTA pH 9, HRP-Staining (1:500)



EB11173 Negative Control showing staining of paraffin embedded Human Tonsil, with no primary antibody.



EB11173 Immunofluorescence analysis of paraformaldehyde fixed NIH3T3 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing endoplasmic reticulum and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control:

Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).