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diagnostic or therapeutic use.**

EB05049-T - Goat Anti-ALDH1A1 (C Terminus) Antibody - Trial

Size: 20µg specific antibody in 40µl



Target Protein

Principal Names: ALDH1A1, aldehyde dehydrogenase 1 family, member A1, ALDC, ALDH-E1, ALDH1, ALDH11, MGC2318,, PUMB1, RALDH1, ALDH class 1, acetaldehyde dehydrogenase 1, aldehyde dehydrogenase 1, soluble, aldehyde dehydrogenase 1A1, aldehyde dehydrogenase, liver cytosolic, retinal dehydrogenase 1, retinaldehyde dehydrogenase 1

Official Symbol: ALDH1A1

Accession Number(s): NP_000680.2

Human GeneID(s): [216](#)

Non-Human GeneID(s): 11668 (mouse), 24188 (rat)

Important Comments: This antibody may cross-react with ALDH1A2 (GeneID 8854) with one residue difference from this design and with ALDH2 (GeneID 217) with two residues difference from this design.

Immunogen

Peptide with sequence C-EVKTVTVKISQKNS, from the C Terminus of the protein sequence according to NP_000680.2.

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 1:1000.

Western blot: Approx 55kDa band observed in Human, Mouse and Rat Liver lysates (calculated MW of 54.9kDa according to NP_000680.2). Recommended concentration: 0.1-0.3µg/ml. Primary incubation was 1 hour.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm of HepG2 cells. Recommended concentration: 10µg/ml. This antibody has been successfully used in IF on Human, PMID: 32157826.

Species Reactivity

Tested: Human, Mouse, Rat

Expected from sequence similarity: Human, Mouse, Rat

Specific References

This antibody has been successfully used in IF on Human:

Jessy Etienne, Pierre Joanne, Cyril Catelain, Stéphanie Riveron, Alexandra Clarissa Bayer, Jérémy Lafable, Isabel Punzon, Stéphane Blot, Onnik Agbulut, and Jean■Thomas Vilquin

Aldehyde dehydrogenases contribute to skeletal muscle homeostasis in healthy, aging, and Duchenne muscular dystrophy patients.

J Cachexia Sarcopenia Muscle. 2020 Aug; 11(4): 1047-1069.

PMID: 32157826

This antibody (previous batch) has been successfully used in WB and ICC on Human:

Amann PM, Hofmann C, Freudenberger M, Holland-Cunz S, Eichmüller SB, Bazhin AV. Expression and activity of alcohol and aldehyde dehydrogenases in melanoma cells and in melanocytes.

J Cell Biochem. 2012 Mar;113(3):792-9.

PMID: 22020955

EB05049 (0.1µg/ml) staining of Human (A), Mouse (B) and Rat (C) Liver lysate (35µg protein in RIPA buffer).
Detected by chemiluminescence.

EB05049 Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).