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# **US Office**

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Research Use Only. Not for diagnostic or therapeutic use.

#### EB10435 - Goat Anti-ALDH5A1 (aa 485-496) Antibody

Size: 100µg specific antibody in 200µl



### **Target Protein**

Principal Names: aldehyde dehydrogenase 5 family, member A1, aldehyde dehydrogenase 5A1, mitochondrial succinate semialdehyde dehydrogenase, NAD(+)-dependent succinic semialdehyde dehydrogenase, SSADH, SSDH, succinate-semialdehyde dehydrogenase, ALDH5A1
Official Symbol: ALDH5A1
Accession Number(s): NP\_733936.1; NP\_001071.1
Human GenelD(s): 7915
Non-Human GenelD(s): 214579 (mouse), 291133 (rat)
Important Comments: This antibody is expected to recognize both reported isoforms (NP\_733936.1; NP\_001071.1). Amino acid numbering in name calculated from NP\_733936.1.

### Immunogen

Peptide with sequence C-SQDPAQIWRVAE, from the internal region of the protein sequence according to NP\_733936.1; NP\_001071.1.

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**

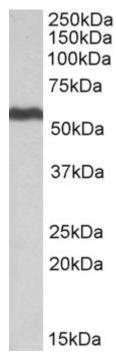
Peptide ELISA: antibody detection limit dilution 1:32000.

**Western blot:** Approx 55kDa band observed in Human Liver lysates (calculated MW of 58.7kDa according to NP\_733936.1). Recommended concentration:  $0.3-1\mu g/ml$ . Please note that both this product and EB10436 detects a 50kDa in Mouse and Rat Liver lysates (calculated MW of 56.0kDa according to Mouse NP\_766120.1).

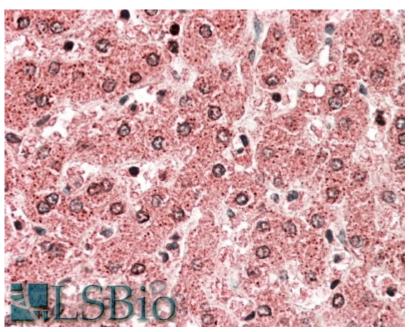
**IHC:** In paraffin embedded Human Liver shows heavy textured cystoplasm staining in hepatocytes, consistent with mitochondia.. Recommended concentration, 5-10µg/ml.

## **Species Reactivity**

Tested: Human, Mouse, Rat Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow



EB10435 (0.5µg/ml) staining of Human Liver lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB10435 (5µg/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.