

## UK 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 GeneID(s):** [7915](#)

**Non-Human GeneID(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: 0.3-1µg/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 cytoplasm staining in hepatocytes, consistent with mitochondria.. 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.