

## UK Office

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

## EB07697 - Goat Anti-Argininosuccinate synthetase 1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** Argininosuccinate synthetase 1, ASS, ASS1, CTLN1, citrulline--aspartate ligase, argininosuccinate synthetase 1, citrulline-aspartate ligase

**Official Symbol:** ASS1

**Accession Number(s):** NP\_000041.2

**Human GeneID(s):** [445](#)

**Non-Human GeneID(s):** 11898 (mouse), 25698 (rat)

**Important Comments:** The variants represent identical protein (NP\_000041.2 and NP\_446464.1).

### Immunogen

Peptide with sequence C-ENPKNQAPPGLYTKTQD, from the internal region of the protein sequence according to NP\_000041.2.

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 1:64000.

**Western blot:** Approx 45kDa band observed in Human Kidney lysates (calculated MW of 46.5kDa according to NP\_000041.2 and NP\_446464.1). Recommended concentration: 0.01-0.03µg/ml. Primary incubation was 1 hour.

**IHC:** In paraffin embedded Human Kidney shows textured cytoplasm staining in PCT. Recommended concentration: 2-4µg/ml. Paraffin embedded Human Liver. Recommended concentration: 2.5µg/ml.

**Immunofluorescence:** A customer has reported this antibody works well in IF.

### Species Reactivity

**Tested:** Human, Cow

**Expected from sequence similarity:** Human, Mouse, Rat, Dog

### Specific Reference

**This antibody has been successfully used in WB and IP in Cow:**

Corbin KD, Pendleton LC, Solomonson LP, Eichler DC.

Phosphorylation of argininosuccinate synthase by protein kinase A.

Biochem Biophys Res Commun. 2008 Dec 26;377(4):1042-6.

PMID: 18948083

EB07697 (0.03µg/ml) staining of Human Kidney lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB07697 (2.5µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

EB07697 (2.5µg/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.