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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.