

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

Storage: For long-term storage keep aliquots at -20°C. (Store no longer than 12 months at 4°C). Minimize freezing and thawing.

## EB08253 - Goat Anti-Synaptotagmin I Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** synaptotagmin 1, SYT, SVP65, P65, SYT1, DKFZp781D2042, synaptotagmin I

**Official Symbol:** SYT1

**Accession Number(s):** NP\_005630.1

**Human GeneID(s):** [6857](#)

**Non-Human GeneID(s):** 20979 (mouse), 25716 (rat)

**Important Comments:** Reported isoforms NP\_005630.1, NP\_001129277.1 and NP\_001129278.1 represent identical protein.

### Immunogen

Peptide with sequence C-RDLQSAEKKEEQEK, from the internal region of the protein sequence according to NP\_005630.1.

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 1:2000.

**Western blot:** Approx. 65kDa band observed in Human Brain (hippocampus) and Mouse and Rat Brain lysates (calculated MW of 47.6kDa according to NP\_005630.1). The observed molecular weight corresponds to earlier findings in literature with different antibodies (Matthew et al, J Cell Biol. 1981 Oct;91(1):257-69.; PMID: 7298720).

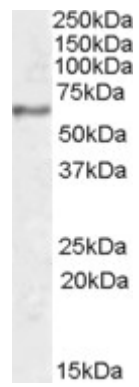
Recommended concentration: 0.3-1µg/ml.

**IHC:** In paraffin embedded Human Brain shows vesicular staining in neuronal cell and axon. Recommended concentration, 4-6µg/ml.

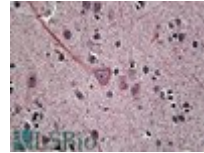
### Species Reactivity

**Tested:** Human

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



EB08253 (1 $\mu$ g/ml) staining of Human Hippocampus lysate (35 $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB08253 (3.8 $\mu$ g/ml) staining of paraffin embedded Human Brain. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.