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EB11713 - Goat Anti-Alpha-synuclein Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: alpha-synuclein, NACP, non A-beta component of AD amyloid, PARK1, PARK4, PD1, SNCA, synuclein alpha-140, synuclein, alpha (non A4 component of amyloid precursor) Official Symbol: SNCA Accession Number(s): NP_009292.1; NP_000336.1 Human GenelD(s): 6622 Non-Human GenelD(s): 20617 (mouse), 29219 (rat) Important Comments: This antibody is expected to recognize both reported isoforms (NP_009292.1; NP_000336.1). Reported variants represent identical protein: NP_000336.1, NP_001139527.1, NP_001139526.1

Immunogen

Peptide with sequence C-ATGFVKKDQLGK, from the internal region of the protein sequence according to NP_009292.1; NP_000336.1.

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 1:128000.

Western blot: Approx 17kDa band observed in Human Brain (Amygdala) and fetal Mouse Brain lysates (calculated MW of 14.5kDa according to Human NP_000336.1 and Mouse NP_033247.1). This molecular weight is routinely observed by other sources. Recommended concentration: 0.1-0.3µg/ml. Primary incubation was 1 hour. **IHC:** Paraffin embedded Human Brain (Cerebellum). Recommended concentration: 5µg/ml.

Species Reactivity

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

Specific References

This antibody has been successfully used in the following paper:

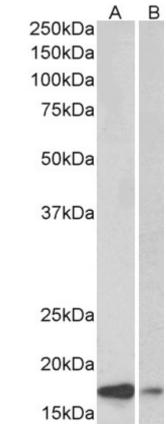
Karina J. Vargas, P. L. Colosi, Eric Girardi, Jae-Min Park, Sreeganga S. Chandra α-Synuclein facilitates clathrin assembly in synaptic vesicle endocytosis (2021) https://doi.org/10.1101/2020.04.29.069344 PMID: 0

This antibody has been successfully used in Western blot on Human:

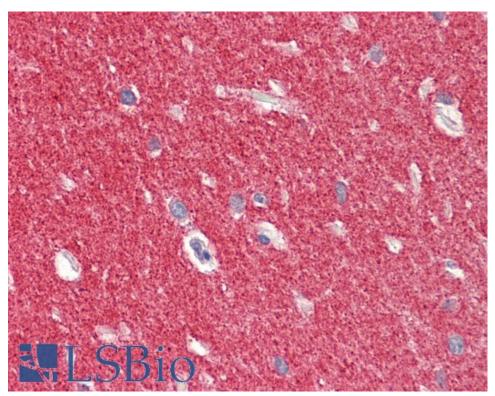
Sandro Huenchuguala & Birgitta Sjödin & Bengt Mannervik & Juan Segura-Aguilar Novel Alpha-Synuclein Oligomers Formed with the Aminochrome-Glutathione Conjugate Are Not Neurotoxic

Neurotox Res. 2019 Feb;35(2):432-440.

PMID: 30343424



EB11713 (0.1µg/ml) staining of Human Amygdala (A) and fetal Mouse (B) Brain lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB11713 (5µg/ml) staining of paraffin embedded Human Cerebellum. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.