# ARG11148
# anti-beta Synuclein antibody [6A10]

Package: 50 µl
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Mouse Monoclonal antibody [6A10] recognizes beta Synuclein |
| Tested Reactivity | Hu, Ms, Rat, Cow, Pig |
| Tested Application | IHC-Fr, WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | 6A10 |
| Isotype | IgG1 |
| Target Name | beta Synuclein |
| Species | Human |
| Immunogen | KLH-conjugated synthetic peptide around the C-terminal region of Human beta Synuclein. (EPEGESYEDPPQEEYQEYEPEA) |
| Conjugation | Un-conjugated |
| Alternate Names | Beta-synuclein |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| IHC-Fr | 1:500 - 1:1000 |
| WB | 1:1000 |

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 18 kDa

## Properties

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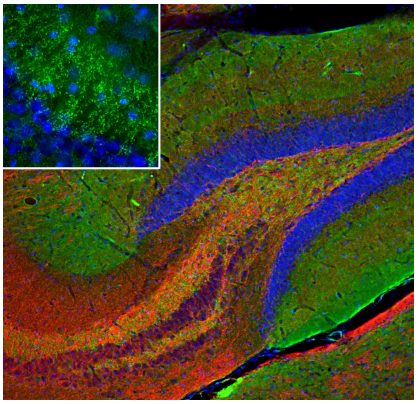
|---|---|
| Form | Liquid |
| Purification | Purified |
| Buffer | PBS, 5 mM Sodium azide and 50% Glycerol. |
| Preservative | 5 mM Sodium azide |
| Stabilizer | 50% Glycerol |
| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

| | |
|---|---|
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

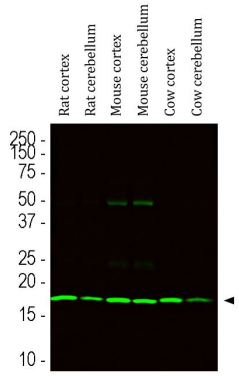
| | |
|---|---|
| Gene Symbol | SNCB |
| Gene Full Name | synuclein, beta |
| Background | This gene encodes a member of a small family of proteins that inhibit phospholipase D2 and may function in neuronal plasticity. The encoded protein is abundant in lesions of patients with Alzheimer disease. A mutation in this gene was found in individuals with dementia with Lewy bodies. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015] |
| Function | Non-amyloid component of senile plaques found in Alzheimer disease. Could act as a regulator of SNCA aggregation process. Protects neurons from staurosporine and 6-hydroxy dopamine (6OHDA)-stimulated caspase activation in a p53/TP53-dependent manner. Contributes to restore the SNCA anti-apoptotic function abolished by 6OHDA. Not found in the Lewy bodies associated with Parkinson disease. [UniProt] |
| Calculated Mw | 14 kDa |
| PTM | Phosphorylated. Phosphorylation by G-protein coupled receptor kinases (GRK) is more efficient than phosphorylation by CK1, CK2 and CaM-kinase II. [UniProt] |
| Cellular Localization | Cytoplasm. [UniProt] |

## Images



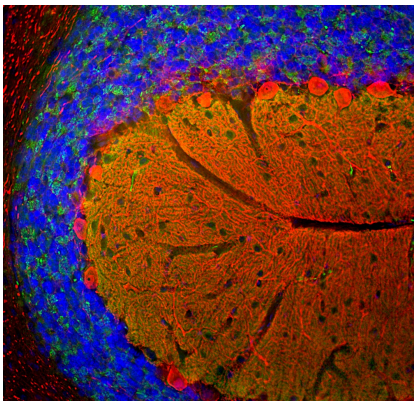
ARG11148 anti-beta Synuclein antibody [6A10] IHC-Fr image

Immunohistochemistry: Frozen section of Mouse hippocampus tissue stained with ARG11148 anti-beta Synuclein antibody [6A10] (green) at 1:500 dilution, and co-stained with ARG11140 anti-Neurofilament NF-L (C-ter) antibody (red) at 1:5000 dilution. Hoechst (blue) for nuclear staining. (Sample preparation: Following transcardial perfusion of mouse with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 µM, and free-floating sections were stained with above antibodies.).




ARG11148 anti-beta Synuclein antibody [6A10] WB image

Western blot: Rat cortex, Rat cerebellum, Mouse cortex, Mouse cerebellum, Cow cortex and Cow cerebellum lysates stained with ARG11148 anti-beta Synuclein antibody [6A10] at 1:1000 dilution.



ARG11148 anti-beta Synuclein antibody [6A10] IHC-Fr image

Immunohistochemistry: Frozen section of Rat cerebellum tissue stained with ARG11148 anti-beta Synuclein antibody [6A10] (green) at 1:500 dilution, and co-stained with ARG11111 anti-Calbindin antibody (red) at 1:5000 dilution. Hoechst (blue) for nuclear staining. (Sample preparation: Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 µM, and free-floating sections were stained with above antibodies.).