abcam

Product datasheet

Anti-Alpha-synuclein antibody [syn211], prediluted ab75305

1 References　画像数 1

製品の概要

製品名	Anti-Alpha-synuclein antibody [syn211], prediluted
製品の詳細	Mouse monoclonal [syn211] to Alpha-synuclein, prediluted
由来種	Mouse
特異性	ab75305 is highly specific for alpha Synuclein and does not react with beta and gamma synucleins.
アプリケーション	**適用あり:** IHC-P, Flow Cyt
種交差性	**交差種:** Human **非交差種:** Mouse, Rat
免疫原	Human recombinant full length alpha Synuclein
ポジティブ・コントロール	Human brain tissue.

製品の特性

製品の状態	Prediluted
保存方法	Shipped at 4°C. Store at +4°C.
バッファー	Preservative: 15mM Sodium Azide Constituents: 0.5M Tris HCl, stabilizing protein, pH 7.6
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	syn211
アイソタイプ	IgG1

アプリケーション

Our Abpromise guarantee covers the use of **ab75305** in the following tested applications.

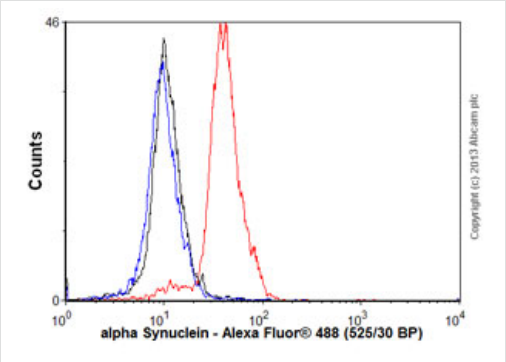
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. Ready for use.
Flow Cyt		Use at an assay dependent concentration. Ready for use. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

ターゲット情報

機能	May be involved in the regulation of dopamine release and transport. Induces fibrillization of microtubule-associated protein tau. Reduces neuronal responsiveness to various apoptotic stimuli, leading to a decreased caspase-3 activation.
組織特異性	Expressed principally in brain but is also expressed in low concentrations in all tissues examined except in liver. Concentrated in presynaptic nerve terminals.
関連疾患	Genetic alterations of SNCA resulting in aberrant polymerization into fibrils, are associated with several neurodegenerative diseases (synucleinopathies). SNCA fibrillar aggregates represent the major non A-beta component of Alzheimer disease amyloid plaque, and a major component of Lewy body inclusions. They are also found within Lewy body (LB)-like intraneuronal inclusions, glial inclusions and axonal spheroids in neurodegeneration with brain iron accumulation type 1. Parkinson disease 1 Parkinson disease 4 Dementia Lewy body
配列類似性	Belongs to the synuclein family.
ドメイン	The 'non A-beta component of Alzheimer disease amyloid plaque' domain (NAC domain) is involved in fibrils formation. The middle hydrophobic region forms the core of the filaments. The C-terminus may regulate aggregation and determine the diameter of the filaments.
翻訳後修飾	Phosphorylated, predominantly on serine residues. Phosphorylation by CK1 appears to occur on residues distinct from the residue phosphorylated by other kinases. Phosphorylation of Ser-129 is selective and extensive in synucleinopathy lesions. In vitro, phosphorylation at Ser-129 promoted insoluble fibril formation. Phosphorylated on Tyr-125 by a PTK2B-dependent pathway upon osmotic stress. Hallmark lesions of neurodegenerative synucleinopathies contain alpha-synuclein that is modified by nitration of tyrosine residues and possibly by dityrosine cross-linking to generated stable oligomers. Ubiquitinated. The predominant conjugate is the diubiquitinated form. Acetylation at Met-1 seems to be important for proper folding and native oligomeric structure.
細胞内局在	Cytoplasm, cytosol. Membrane. Nucleus. Cell junction, synapse. Secreted. Membrane-bound in dopaminergic neurons.

画像



Flow Cytometry - Anti-alpha Synuclein antibody [syn211], prediluted (ab75305)

Overlay histogram showing SH-SY5Y cells stained with ab75305 (red line). The cells were fixed with 80% methanol (5 min)/ and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab75305, neat) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 1µg/1x10^6 cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

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