

Anti-alpha + beta Synuclein antibody [EP1646Y] ab51252

リコンビナント **RabMAb**

★★★★★ **1 Abreviews** **24 References** 画像数 9

製品の概要

製品名	Anti-alpha + beta Synuclein antibody [EP1646Y]
製品の詳細	Rabbit monoclonal [EP1646Y] to alpha + beta Synuclein
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), WB, ICC/IF 適用なし: IP
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide within Human alpha + beta Synuclein aa 1-100 (N terminal). The exact sequence is proprietary.
ポジティブ・コントロール	WB: Human fetal brain, human cerebellum, mouse brain and rat brain tissue lysates. ICC/IF: PC12 and rat primary hippocampal neuron cells. Flow Cyt (intra): SH-SY5Y and U87-MG cells.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EP1646Y

アイソタイプ

IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab51252の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/30. For unpurified use at 1/1000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/5000. Detects a band of approximately 18 kDa (predicted molecular weight: 14 kDa). For unpurified use at 1/50000.
ICC/IF	★★★★★ (1)	1/50 - 1/100.

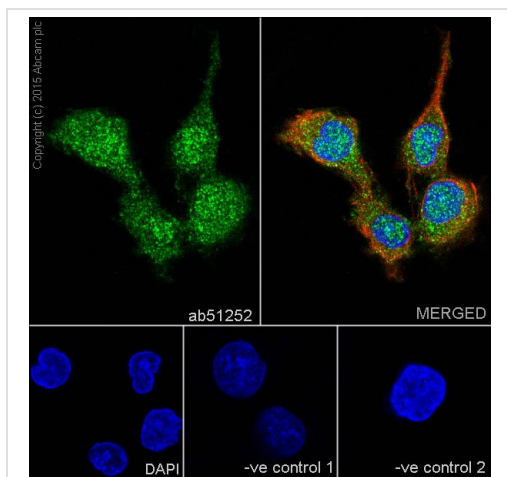
追加情報 Is unsuitable for IP.

ターゲット情報

関連性 Synucleins are small soluble proteins expressed primarily in neural tissues and in certain tumors. The family includes 3 known proteins, alpha synuclein, beta synuclein and gamma synuclein. All synucleins have in common a highly conserved alpha helical lipid binding motif with similarity to the class A2 lipid binding domains of the exchangeable apolipoproteins. The alpha and beta synuclein proteins are found primarily in brain tissue, where they are seen mainly in pre synaptic terminals. Alpha synuclein is believed to be a major component of Lewy bodies in Parkinson's disease. Mutations in alpha synuclein are associated with rare familial cases of early onset Parkinson's disease, Alzheimer's disease and several other neurodegenerative illnesses.

細胞内局在 Cytoplasmic. Membrane bound in dopaminergic neurons. Also found in the nucleus.

画像

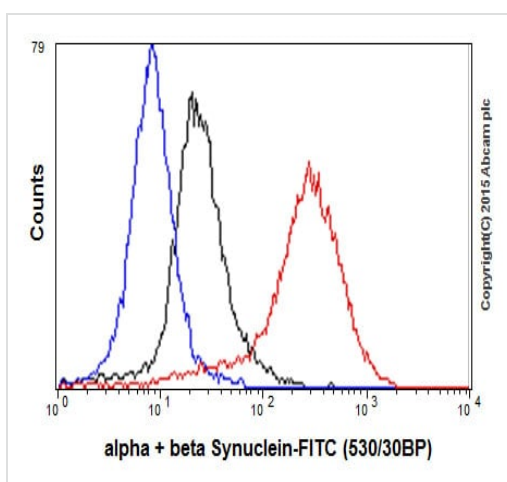


Immunocytochemistry/ Immunofluorescence - Anti-alpha + beta Synuclein antibody [EP1646Y] (ab51252)

Immunocytochemistry/Immunofluorescence analysis of PC-12 cells labelling alpha + beta Synuclein with purified ab51252 at 1/100. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

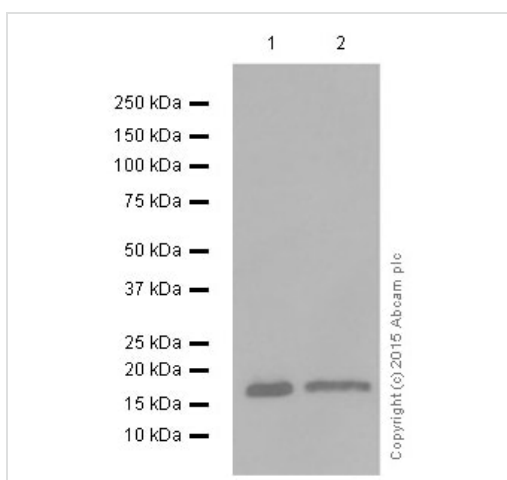
Control 1: primary antibody (1/100) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000).



Flow Cytometry (Intracellular) - Anti-alpha + beta Synuclein antibody [EP1646Y] (ab51252)

Overlay histogram showing U87-MG cells fixed in 4% PFA and stained with purified ab51252 at a dilution of 1 in 30 (red line). The secondary antibody used was FITC goat anti-rabbit at a dilution of 1 in 500. Rabbit monoclonal IgG was used as an isotype control (black line) and cells incubated in the absence of both primary and secondary antibody were used as a negative control (blue line).



Western blot - Anti-alpha + beta Synuclein antibody [EP1646Y] (ab51252)

All lanes : Anti-alpha + beta Synuclein antibody [EP1646Y] (ab51252) at 1/5000 dilution (purified)

Lane 1 : Mouse brain tissue lysate

Lane 2 : Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

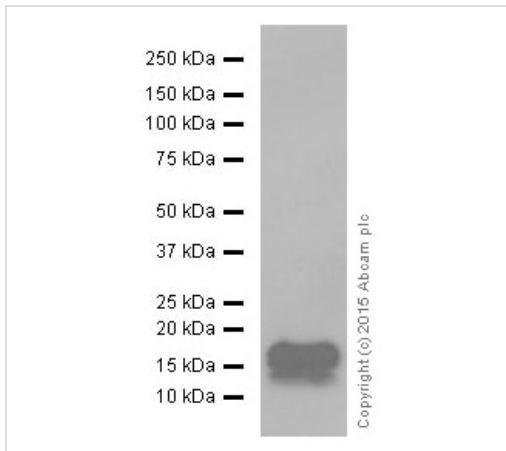
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 14 kDa

Observed band size: 18 kDa

Blocking and dilution buffer: 5% NFDM /TBST.



Western blot - Anti-alpha + beta Synuclein antibody [EP1646Y] (ab51252)

Anti-alpha + beta Synuclein antibody [EP1646Y] (ab51252) at 1/5000 dilution (purified) + Human cerebellum tissue lysate at 20 µg

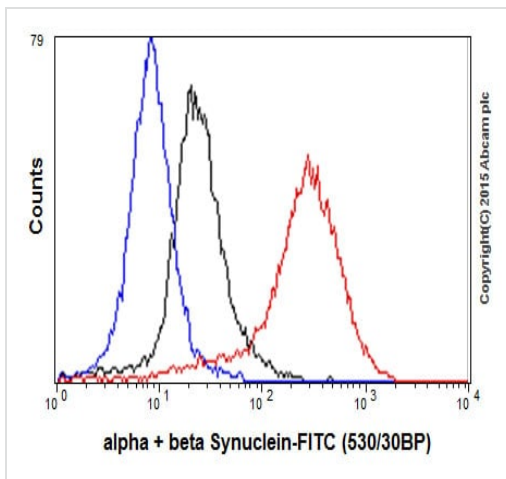
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 14 kDa

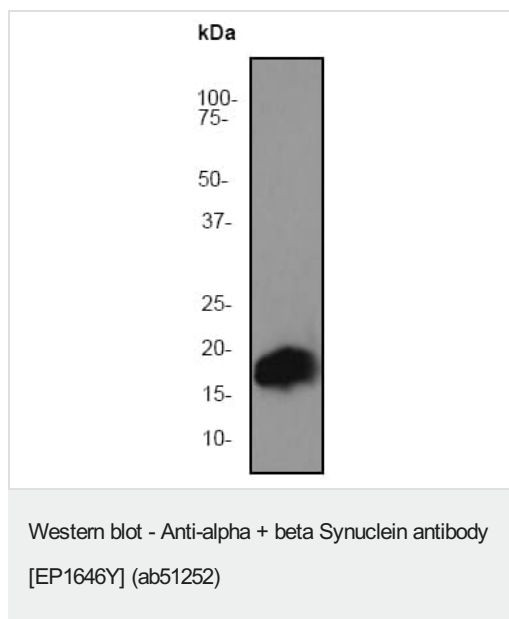
Observed band size: 18 kDa

Blocking and dilution buffer: 5% NFDM /TBST.



Flow Cytometry (Intracellular) - Anti-alpha + beta Synuclein antibody [EP1646Y] (ab51252)

Intracellular Flow Cytometry analysis of U87-MG cells labelling alpha + beta Synuclein with purified ab51252 at 1/30 (red). Cells were fixed with 4% paraformaldehyde. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



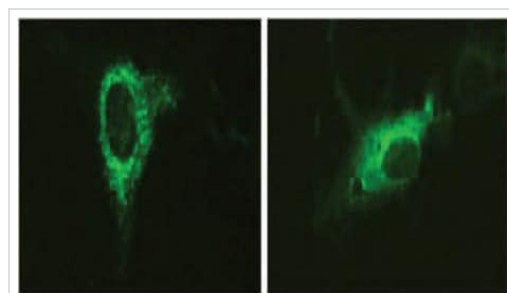
Anti-alpha + beta Synuclein antibody [EP1646Y] (ab51252) at 1/50000 dilution (unpurified) + Human fetal brain tissue lysate at 10 μ g

Secondary

HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 14 kDa

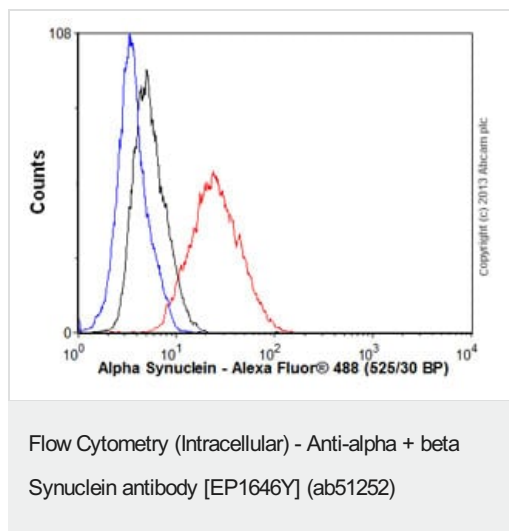
Observed band size: 18 kDa



Immunocytochemistry/Immunofluorescence analysis of rat primary hippocampal neurons, staining alpha + beta Synuclein with unpurified ab51252. Cells were fixed, permeabilized, and blocked with 10% donkey serum at room temperature. Cells were incubated with primary antibody (1/1000) at 4°C for 24 hours. A Cy2-conjugated donkey anti-rabbit IgG was used as the secondary antibody.





Immunocytochemistry/ Immunofluorescence - Anti-alpha + beta Synuclein antibody [EP1646Y] (ab51252)

Image from Hejjaoui Met al., J Am Chem Soc. 2012 Mar 21;134(11):5196-210. Epub 2012 Mar 13. Fig 4.; DOI: 10.1021/ja210866j; February 16, 2012, J. Am. Chem. Soc., 2012, 134 (11), pp 5196–5210, with permission from the American Chemical Society.



Overlay histogram showing SH-SY5Y cells stained with unpurified ab51252 (red line). The cells were fixed with 4% paraformaldehyde (10 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 (unpurified ab51252, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) ([ab150077](#)) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1 µg/1x10⁶ 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.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-alpha + beta Synuclein antibody [EP1646Y] (ab51252)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors