alpha Synuclein Recombinant Polyclonal Antibody (14HCLC)

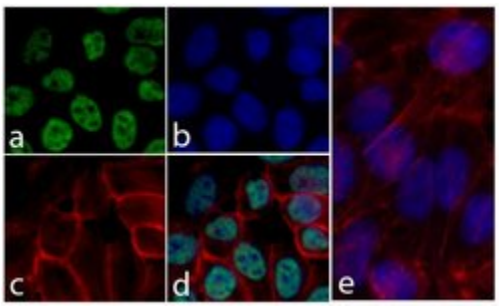
Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotope	Rabbit / IgG
Class	Recombinant Polyclonal
Type	Antibody
Clone	14HCLC
Conjugate	Unconjugated
Immunogen	Peptide corresponding to amino acids 117–125 of human alpha synuclein
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532568

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1:500-1:5000	-
Immunofluorescence (IF)	1:500-1:5000	-
Western Blot (WB)	1:500-1:5000	-

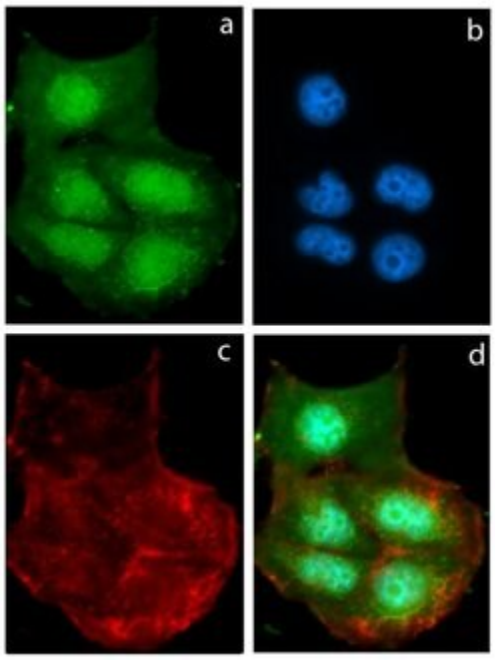
Product Specific Information

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

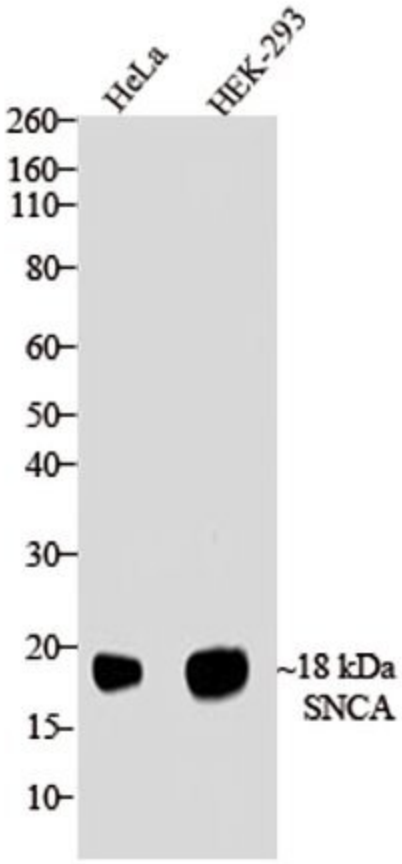
Product Images For alpha Synuclein Recombinant Polyclonal Antibody (14HCLC)



alpha Synuclein Antibody (710110) in IF
Immunofluorescent analysis of SNCA was performed on 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0. 25% Triton X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with SNCA Recombinant Rabbit Polyclonal Antibody (Product # 710110) at a dilution of 1:1000 in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor® 488 Goat anti-Rabbit IgG secondary antibody (Product # A-11008) at a dilution of 1:400 for 30 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 594 phalloidin (Product # A12381). Panel d is a merged image showing cytoplasmic localization. Panel e is a control without primary antibody. The images were captured using a Nikon microscope at 20X magnification.



alpha Synuclein Antibody (710110) in IF
Immunofluorescent analysis of alpha Synuclein in HeLa cells using an Alpha Synuclein Recombinant Rabbit Polyclonal Antibody (Product # 710110) followed by detection using an Alexa Fluor 488-conjugated Goat anti-Rabbit secondary antibody (green) (Image A). Nuclei were stained using DAPI (Image B) and actin stained with Alexa Fluor 594 phalloidin (red) (image C). Image D is a composite image showing cytoplasmic and nuclear localization of Alpha-Synuclein.



alpha Synuclein Antibody (710110) in WB
Western blot analysis of SNCA was performed by loading 30 µg of HeLa and HEK-293 cell lysates using Novex®NuPAGE® 4-12% Bis-Tris gel (Product # NP0321BOX), XCell SureLock Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (Product # LC5800), and iBlot® Dry Blotting System (Product # IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5% skim milk for 1 hour at room temperature. SNCA was detected at ~18 kDa using SNCA Recombinant Rabbit Polyclonal Antibody (Product # 710110) at a 1:1000 dilution in 2.5% skim milk at 4°C overnight on a rocking platform. Detection was performed using an HRP-conjugated Goat anti-Rabbit secondary antibody (Product # G-21234) at a 1:5000 dilution and chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).

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