


Anti-Syntaxin 1a antibody ab41453

★★★★★ [6 Abreviews](#) [17 References](#) [4 图像](#)

概述

产品名称	Anti-Syntaxin 1a抗体
描述	兔多克隆抗体to Syntaxin 1a
宿主	Rabbit
经测试应用	适用于: IP, ICC/IF, WB
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Sheep, Cow, Macaque monkey, Orangutan 
免疫原	Synthetic peptide corresponding to Rat Syntaxin 1a aa 1-100 conjugated to keyhole limpet haemocyanin. (Peptide available as ab41452)
阳性对照	ICC/IF: primary hippocampal rat neurons/glia, DIV14. cells, and PC12 cells. WB: Mouse Brain, Rat Brain, Human Brain tissue lysates. IP: Mouse Brain
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
	Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab41453于以下的经测试应用

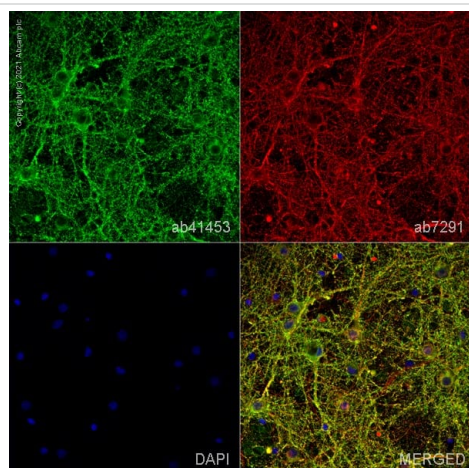
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IP	★★★★★ (1)	Use a concentration of 5 µg/ml.
ICC/IF		Use a concentration of 1 - 5 µg/ml.
WB	★★★★★ (2)	Use a concentration of 1 µg/ml. Detects a band of approximately 33 kDa (predicted molecular weight: 33 kDa).

靶标

功能	Potentially involved in docking of synaptic vesicles at presynaptic active zones. May play a critical role in neurotransmitter exocytosis. May mediate Ca(2+)-regulation of exocytosis acrosomal reaction in sperm.
组织特异性	Isoform 1 is highly expressed in embryonic spinal chord and ganglia and in adult cerebellum and cerebral cortex. Isoform 2 is expressed in heart, liver, fat, skeletal muscle, kidney and brain.
疾病相关	Note=STX1A is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region.
序列相似性	Belongs to the syntaxin family. Contains 1 t-SNARE coiled-coil homology domain.
细胞定位	Secreted and Cytoplasmic vesicle > secretory vesicle > synaptic vesicle membrane. Cell junction > synapse > synaptosome.

图片

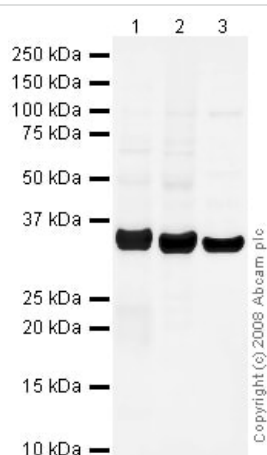


Immunocytochemistry/ Immunofluorescence - Anti-Syntaxin 1a antibody (ab41453)

ab41453 staining Syntaxin 1a in primary hippocampal rat neurons/glia, (obtained from Neuromics, cat. no. PC35101), DIV14. cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab41453 at 5µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Also suitable in cells fixed with 4% paraformaldehyde (10 min).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Western blot - Anti-Syntaxin 1a antibody (ab41453)

All lanes : Anti-Syntaxin 1a antibody (ab41453) at 1 µg/ml

Lane 1 : Human brain tissue lysate - total protein (**ab29466**)

Lane 2 : Brain (Mouse) Mouse Tissue Lysate

Lane 3 : Brain (Rat) Rat Tissue Lysate

Lysates/proteins at 10 µg per lane.

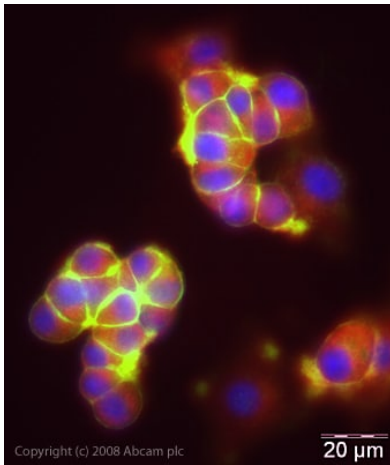
Secondary

All lanes : IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

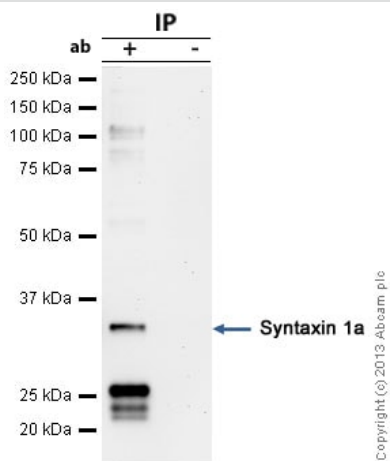
Predicted band size: 33 kDa

Observed band size: 33 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Syntaxin 1a antibody (ab41453)

ICC/IF image of ab41453 stained rat PC12 cells. The cells were methanol fixed (5 min), permeabilised in PBS-T (20 min) and incubated with the antibody (ab41453, 1µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue).



Immunoprecipitation - Anti-Syntaxin 1a antibody (ab41453)

Syntaxin 1a was immunoprecipitated using 0.5mg Mouse Brain tissue lysate, 5µg of Rabbit polyclonal to Syntaxin 1a and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Mouse Brain tissue lysate lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab41453.

Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) ([ab99697](#)).

Band: 33kDa, non specific band - 25kDa: We are unsure as to the identity of this extra band; Syntaxin 1a

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