abcam

Product datasheet

Anti-TRPV1 antibody [BS397] - C-terminal ab203103

★★★★★ 1 Abreviews 19 References 6 图像

概述

产品名称	Anti-TRPV1抗体[BS397] - C-terminal
描述	**小鼠单克隆抗体**[BS397] to TRPV1 - C-terminal
宿主	Mouse
经测试应用	**适用于:** Flow Cyt (Intra), WB, IHC-Fr, ICC/IF
种属反应性	**与反应:** Mouse, Rat **预测可用于:** Guinea pig
免疫原	Synthetic peptide within Rat TRPV1 aa 800 to the C-terminus (C terminal) (Cysteine residue). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Database link: **O35433** Run BLAST with Run BLAST with
阳性对照	WB: PC-12 cell lysates; Mouse brain homogenate; forskolin and NGF stimulated 50B11 hybrid mouse and rat DRG cell lysates; NGF-stimulated PC-12 cell lysates. IHC-Fr: Mouse dorsal root ganglia. ICC/IF: C6 cells. Flow Cyt (Intra): PC-12 cells.
常规说明	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. 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

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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7 Constituents: PBS, 3% Trehalose also contains buffer salts

纯度	Protein G purified
克隆	单克隆
克隆编号	BS397
同种型	IgG2b
轻链类型	kappa

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab203103**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。

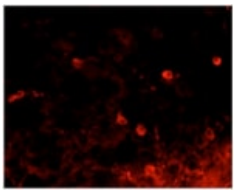
应用	Ab评论	说明
Flow Cyt (Intra)		Use 2µg for 10^6 cells.
WB	★★★★★ (1)	Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 95 kDa.
IHC-Fr		Use a concentration of 1 - 10 µg/ml. Pre-absorption with immunogen obliterates positive staining. Frozen or PEG embedded tissues tested.
ICC/IF		Use a concentration of 1 - 2 µg/ml. Requires permeabilization step due to antigen epitope is intracellular

靶标

功能	Receptor-activated non-selective calcium permeant cation channel involved in detection of noxious chemical and thermal stimuli. Seems to mediate proton influx and may be involved in intracellular acidosis in nociceptive neurons. May be involved in mediation of inflammatory pain and hyperalgesia. Sensitized by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases, which involves PKC isozymes and PCL. Acts as ionotropic endocannabinoid receptor with central neuromodulatory effects. Triggers a form of long-term depression (TRPV1-LTD) mediated by the endocannabinoid anandamine in the hippocampus and nucleus accubens by affecting AMPA receptors endocytosis.
组织特异性	Widely expressed at low levels. Expression is elevated in dorsal root ganglia. In skin, expressed in cutaneous sensory nerve fibers, mast cells, epidermal keratinocytes, dermal blood vessels, the inner root sheet and the infundibulum of hair follicles, differentiated sebocytes, sweat gland ducts, and the secretory portion of eccrine sweat glands (at protein level).
序列相似性	Belongs to the transient receptor (TC 1.A.4) family. TrpV subfamily. TRPV1 sub-subfamily. Contains 6 ANK repeats.
结构域	The association domain (AD) is necessary for self-association.
翻译后修饰	Phosphorylation by PKA reverses capsaicin-induced dephosphorylation at multiple sites, probably including Ser-117 as a major phosphorylation site. Phoshphorylation by CAMKII seems to regulate binding to vanilloids. Phosphorylated and modulated by PKCM and probably PKCZ. Dephosphorylation by calcineurin seems to lead to receptor desensitization and phosphorylation

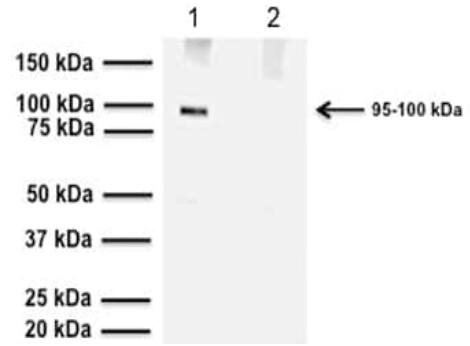
	by CAMKII recovers activity.
细胞定位	Cell junction > synapse > postsynaptic cell membrane. Cell projection > dendritic spine membrane.

图片



Immunohistochemistry (Frozen sections) - Anti-TRPV1 antibody [BS397] - C-terminal (ab203103)

Immunohistochemical analysis of mouse dorsal root ganglia labelling TRPV1 with ab203103 at 10 µg/mL. Visualized with anti-mouse-Cy3 conjugate (red).



Western blot - Anti-TRPV1 antibody [BS397] - C-terminal (ab203103)

Lane 1 : Anti-TRPV1 antibody [BS397] - C-terminal (ab203103) at 2 µg/ml (overnight)
Lane 2 : Anti-TRPV1 antibody [BS397] - C-terminal (ab203103) at 2 µg/ml ((pre-absorbed))

All lanes : Rat PC-12 (Rat adrenal gland pheochromocytoma cell line) cell lysate

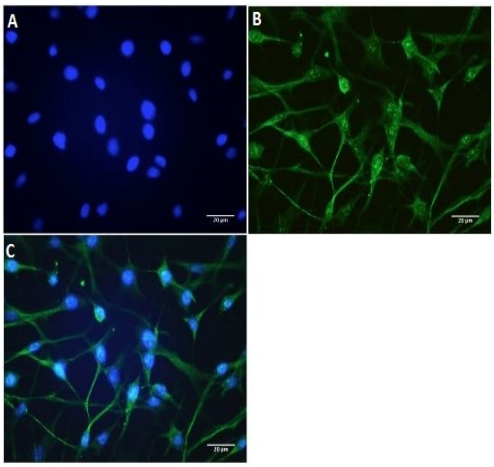
Lysates/proteins at 80 µg per lane.

Secondary
All lanes : Anti-mouse-HRP at 1/6000 dilution

Developed using the ECL technique.

Predicted band size: 95 kDa

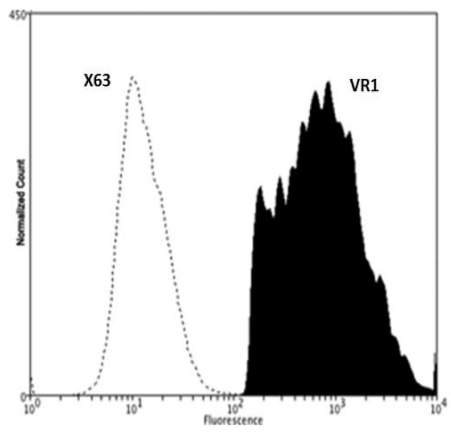
SDS-PAGE: denatured and reduced



Immunocytochemistry/ Immunofluorescence - Anti-TRPV1 antibody [BS397] - C-terminal (ab203103)

ab203103 staining TRPV1 in C6 (Rat glial tumor cell line) cells by ICC/IF (Immunocytochemistry/immunofluorescence).

Cells were fixed with 4% formaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% horse serum. Samples were incubated with primary antibody (2 µg/ml, panel B) for 1 hour.
A CF488A-conjugated Donkey anti-mouse polyclonal was used as the secondary antibody (5 µg/ml). Nuclei were stained with Hoechst dye (panel A) and panel C shows the merged image.

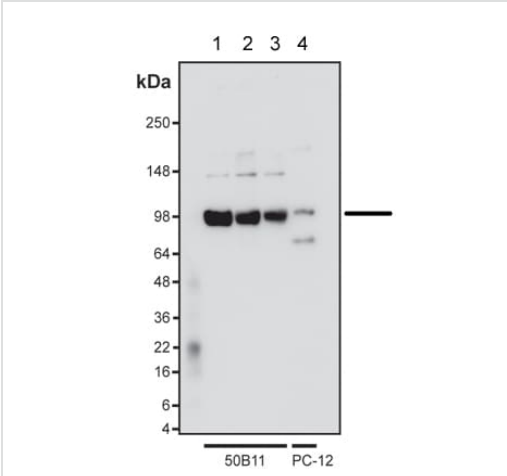


Flow Cytometry (Intracellular) - Anti-TRPV1 antibody [BS397] - C-terminal (ab203103)

Analysis of TRPV1 expression in PC-12 (Rat adrenal gland pheochromocytoma cell line) cell line by Flow Cyt (Intra) (black solid).

Cells were fixed and permeabilized in absolute methanol (10 minutes in ice) and 0.1% Tween-20 in PBS, then blocked with 1% BSA. Incubated with primary antibody for 30 minutes at RT. Secondary antibody used is a Goat anti-mouse PE labeled secondary antibody (1:100 dilution), 20 minutes in dark at room temperature.

Negative control: Non-specific Control IgG, clone X63 (black dashed).



Western blot - Anti-TRPV1 antibody [BS397] - C-terminal (ab203103)

All lanes : Anti-TRPV1 antibody [BS397] - C-terminal (ab203103) at 1 µg/ml

Lane 1 : 50B11 treated with Forskolin + NGF
Lane 2 : 50B11 treated with Forskolin
Lane 3 : Untreated 50B11 control
Lane 4 : NGF-stimulated PC-12 (Rat glial tumor cell line) cell lysate (NGF control)

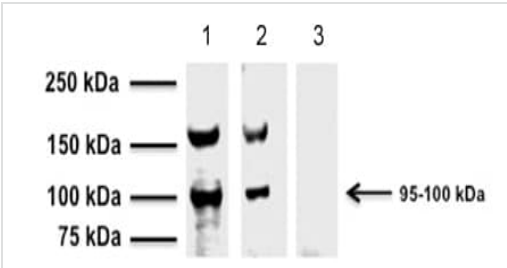
Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 95 kDa
Observed band size: 95-100 kDa

(4°C overnight).



Western blot - Anti-TRPV1 antibody [BS397] - C-terminal (ab203103)

Lane 1 : Anti-TRPV1 antibody [BS397] - C-terminal (ab203103) at 2 µg/ml
Lane 2 : Anti-TRPV1 antibody [BS397] - C-terminal (ab203103) at 1 µg/ml
Lane 3 : Anti-TRPV1 antibody [BS397] - C-terminal (ab203103) at 2 µg/ml (pre-absorbed)

All lanes : Mouse brain homogenate

Lysates/proteins at 25 µg per lane.

Secondary
All lanes : Anti-mouse-HRP at 1/6000 dilution

Developed using the ECL technique.

Predicted band size: 95 kDa

SDS-PAGE: denatured and reduced. ab203103 detects bands at 90-100 kDa and 180-200 kDa corresponding to TRPV1 monomer and dimer.

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