# abcam

## Product datasheet

# Anti-BDNF antibody [3B2] ab205067

**26 References**    4 图像

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## 概述

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|---|---|
| **产品名称** | Anti-BDNF抗体[3B2] |
| **描述** | 小鼠单克隆抗体[3B2] to BDNF |
| **宿主** | Mouse |
| **经测试应用** | **适用于：** WB, ICC/IF, IHC-P |
| **种属反应性** | **与反应：** Mouse, Rat, Human, Chinese hamster |
| **免疫原** | Recombinant full length protein corresponding to Human BDNF (N terminal). (Purified from E.coli). Database link: **P23560** |
| **阳性对照** | Brain tissue lysate, proBDNF-expressing U2OS cells; Human cerebral cortex tissue sections from Alzheimer's disease patients. |
| **常规说明** | For BDNF, multiple WB bands are possible and expected. The human protein has 5 isoforms (precursors: 28 – 37 kDa) and can be glycosylated (Uniprot: **http://www.uniprot.org/uniprot/P23560**). The mature form is expected at ~14 kDa (monomer) and the dimer at ~28 kDa. |
| | 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 |

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## 性能

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|---|---|
| **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: 7.40<br>Preservative: 0.1% Sodium azide<br>Constituent: 99% PBS |
| **纯度** | Protein G purified |
| **克隆** | 单克隆 |

| 克隆编号 | 3B2 |
|---|---|
| 同种型 | IgG1 |

## 应用

**The Abpromise guarantee**    **Abpromise™承诺保证使用ab205067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 |
|---|---|---|
| **WB** | | Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 15 kDa. |
| **ICC/IF** | | Use a concentration of 0.33 - 20 µg/ml. |
| **IHC-P** | | Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |

## 靶标

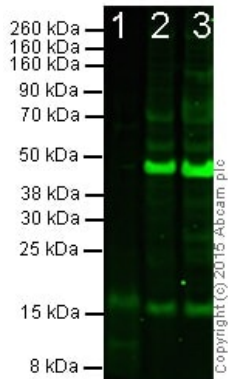| 功能 | During development, promotes the survival and differentiation of selected neuronal populations of the peripheral and central nervous systems. Participates in axonal growth, pathfinding and in the modulation of dendritic growth and morphology. Major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. The versatility of BDNF is emphasized by its contribution to a range of adaptive neuronal responses including long-term potentiation (LTP), long-term depression (LTD), certain forms of short-term synaptic plasticity, as well as homeostatic regulation of intrinsic neuronal excitability. |
|---|---|
| **组织特异性** | Brain. Highly expressed in hippocampus, amygdala, cerebral cortex and cerebellum. Also expressed in heart, lung, skeletal muscle, testis, prostate and placenta. |
| **疾病相关** | Bulimia nervosa 2<br>Congenital central hypoventilation syndrome |
| **序列相似性** | Belongs to the NGF-beta family. |
| **翻译后修饰** | The propeptide is N-glycosylated and glycosulfated.<br>Converted into mature BDNF by plasmin (PLG). |
| **细胞定位** | Secreted. |

## 图片

Western blot - Anti-BDNF antibody [3B2] (ab205067)

**All lanes :** Anti-BDNF antibody [3B2] (ab205067) at 2.5 µg/ml

**Lane 1 :** Human hippocampus with MES

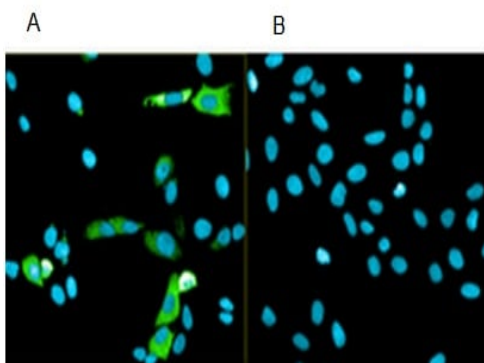**Lane 2 :** Rat hippocampus with MES

**Lane 3 :** Mouse hippocampus with MES

**Secondary**

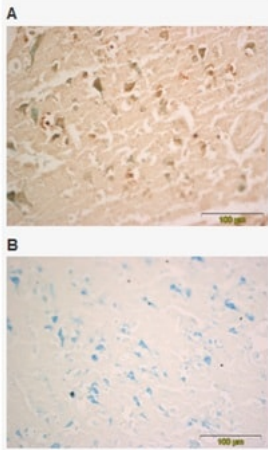**All lanes :** Goat anti-Mouse800 Licor at 1/10000 dilution

**Predicted band size:** 15 kDa

This blot was produced using a 4-12% Bis-tris gel under the MES buffer system. The gel ran at 200V for 35 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for 1 hour before incubation with ab205067 (2.5 microgram /mL) overnight at 4°C. Antibody binding was detected using infrared labelled goat anti-mouse IgG (green) at a 1:10,000 dilution for 1 hour at room temperature.
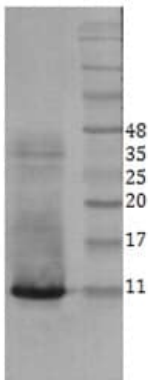


Immunocytochemistry/ Immunofluorescence - Anti-BDNF antibody [3B2] (ab205067)

Immunofluorescent analysis of U2OS cells labeling BDNF with ab205067 at 0.33 µg/ml, followed by Goat anti-mouse AlexaFluor488 secondary antibody. For nuclear staining DAPI was used. A: proBDNF-expressing U2OS cells; B. Negative control (non-transfected U2OS cells).

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human cerebral cortex tissue sections from Alzheimer's disease patients labeling BDNF with ab205067 at 5 µg/ml, followed by peroxidase secondary detection and DAB staining. A: BDNF staining by ab205067; B.Negative staining without primary antibody. Sections were counterstained with toluidine blue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BDNF antibody [3B2] (ab205067)



Anti-BDNF antibody [3B2] (ab205067) at 5 µg/ml + 10 µl of CHO cell culture supernatant containing BDNF at 10 µl

**Secondary**
HRP-conjugated Goat anti-Mouse IgG

**Predicted band size:** 15 kDa

Western blot - Anti-BDNF antibody [3B2] (ab205067)

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