# abcam

# Product datasheet

# Recombinant Human/Murine/Rat BDNF protein (Active) ab9794

18 References 画像数 1

製品の詳細

製品名 Recombinant Human/Murine/Rat BDNF protein (Active)

生理活性 Determined by its ability to bind recombinant human TrkB Fc Chimera in a functional ELISA.

The active form of BDNF is a 27.0 kDa, dimer formed by two identical 119 amino acid subunits

that is held together by strong hydrophobic interactions.

精製度 > 98 % SDS-PAGE.

> 98% pure HPLC analyses.

エンドトキシン・レベル < 1.000 Eu/μg 発現系 Escherichia coli

アクセッション番号 P23560

タンパク質長 Full length protein

Animal free No

**由来** Recombinant

配列 MHSDPARRGE LSVCDSISEW VTAADKKTAV

DMSGGTVTVL EKVPVSKGQL KQYFYETKCN PMGYTKEGCR GIDKRHWNSQ CRTTQSYVRA LTMDSKKRIG WRFIRIDTSC VCTLTIKRGR

予測される分子量27 kDa領域129 to 247

配列の追加情報 aa 129 to 247 refers to the full length mature form. This product does not contain signal peptide or

propeptide.

特性

Our **Abpromise guarantee** covers the use of **ab9794** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション HPLC

Cellular Activation

SDS-PAGE Western blot

製品の状態 Lyophilized

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## 前処理および保存

#### 保存方法および安定性

Shipped at  $4^{\circ}$ C. Store at  $+4^{\circ}$ C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -

80°C. Avoid freeze / thaw cycle.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

#### 再構成

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4C for 1 week or -20C for future use.

## 関連情報

#### 機能

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.

組織特異性

 $Brain.\ Highly\ expressed\ in\ hippocampus,\ amygdala,\ cerebral\ cortex\ and\ cerebellum.\ Also$ 

expressed in heart, lung, skeletal muscle, testis, prostate and placenta.

関連疾患

Bulimia nervosa 2

Congenital central hypoventilation syndrome

配列類似性

Belongs to the NGF-beta family.

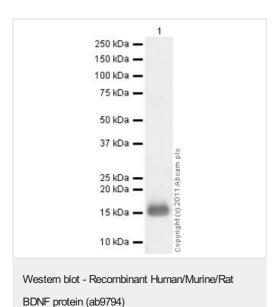
翻訳後修飾

The propeptide is N-glycosylated and glycosulfated. Converted into mature BDNF by plasmin (PLG).

細胞内局在

Secreted.

### 画像



Rabbit Anti-BDNF antibody at 1  $\mu$ g/ml + Recombinant Human/Murine/Rat BDNF protein (Active) (ab9794) at 0.1  $\mu$ g

#### Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 4 minutes

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