

### Human CABP peptide ab108465

#### 製品の詳細

---

|             |                                   |
|-------------|-----------------------------------|
| 製品名         | Human CABP peptide                |
| 精製度         | >= 70 % HPLC.<br>70 - 90% by HPLC |
| Animal free | No                                |
| 由来          | Synthetic                         |
| 生物種         | Human                             |

#### 特性

---

Our **Abpromise guarantee** covers the use of **ab108465** in the following tested applications.

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

製品の状態 Liquid

備考

- First try to dissolve a small amount of peptide in either water or buffer. The more charged residues on a peptide, the more soluble it is in aqueous solutions.
- If the peptide doesn't dissolve try an organic solvent e.g. DMSO, then dilute using water or buffer.
- Consider that any solvent used must be compatible with your assay. If a peptide does not dissolve and you need to recover it, lyophilise to remove the solvent.
- Gentle warming and sonication can effectively aid peptide solubilisation. If the solution is cloudy or has gelled the peptide may be in suspension rather than solubilised.
- Peptides containing cysteine are easily oxidised, so should be prepared in solution just prior to use.

#### 前処理および保存

---

保存方法および安定性 Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.  
Information available upon request.

#### 関連情報

---

機能 Modulates calcium-dependent activity of inositol 1,4,5-triphosphate receptors (ITPRs). Inhibits

agonist-induced intracellular calcium signaling. Enhances inactivation and does not support calcium-dependent facilitation of voltage-dependent P/Q-type calcium channels. Causes calcium-dependent facilitation and inhibits inactivation of L-type calcium channels by binding to the same sites as calmodulin in the C-terminal domain of CACNA1C, but resulting in an opposite effects on channel function. Suppresses the calcium-dependent inactivation of CACNA1D (By similarity). Inhibits TRPC5 channels. Prevents NMDA receptor-induced cellular degeneration.

**組織特異性**

Retina and brain. Somatodendritic compartment of neurons. Calbrain was found exclusively in brain where it is abundant in the hippocampus, habenular area in the epithalamus and in the cerebellum.

**配列類似性**

Contains 4 EF-hand domains.

**ドメイン**

EF-1 binds magnesium constitutively under physiological conditions, EF-3 and EF-4 bind calcium cooperatively and EF-2 binds neither calcium nor magnesium.

**翻訳後修飾**

Phosphorylated. The phosphorylation regulates the activity.

**細胞内局在**

Cytoplasm > cell cortex. Cell membrane. S-CaBP1 is localized at or near the plasma membrane; Cytoplasm > cytoskeleton. Cytoplasm > perinuclear region. Cell membrane. Golgi apparatus. Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. L-CaBP1 is associated most likely with the cytoskeletal structures, whereas S-CaBP1 is localized at or near the plasma membrane and Cytoplasm > cytoskeleton. L-CaBP1 is associated most likely with the cytoskeletal structures.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

---

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

---

**Terms and conditions**

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors