

### Anti-SynGAP antibody [EPR2883Y] ab77235

リコンビナント **RabMAb**

#### 7 References [画像数 3](#)

#### 製品の概要

|              |  |
|--------------|--|
| 製品名          | Anti-SynGAP antibody [EPR2883Y]  |
| 製品の詳細        | Rabbit monoclonal [EPR2883Y] to SynGAP   |
| 由来種          | Rabbit   |
| アプリケーション     | <b>適用あり:</b> WB<br><b>適用なし:</b> IHC-P or IP  |
| 種交差性         | <b>交差種:</b> Mouse, Rat, Human  |
| 免疫原          | Synthetic peptide within Human SynGAP (C terminal). The exact sequence is proprietary.   |
| ポジティブ・コントロール | Fetal brain lysate   |
| 特記事項         | This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> .<br>Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> . |

#### 製品の特性

|        |   |
|--------|---|
| 製品の状態  | Liquid  |
| 保存方法   | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.   |
| バッファー  | pH: 7.20<br>Preservative: 0.01% Sodium azide<br>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant |
| 精製度    | Protein A purified  |
| ポリ/モノ  | モノクローナル   |
| クローン名  | EPR2883Y  |
| アイソタイプ | IgG   |

## アプリケーション

**The Abpromise guarantee**      **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab77235の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

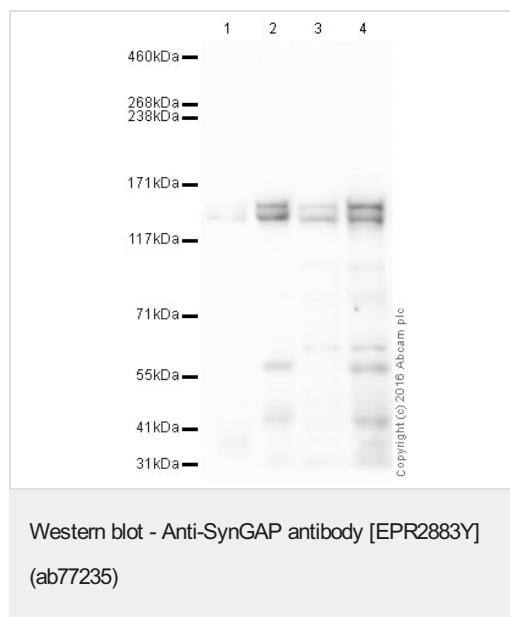
| アプリケーション | Abreviews | 特記事項  |
|----------|-----------|---|
| WB       |           | 1/1000 - 1/5000. Predicted molecular weight: 147 kDa. |

**追加情報**      Is unsuitable for IHC-P or IP.

## ターゲット情報

|              |  |
|--------------|--|
| <b>機能</b>    | Major constituent of the PSD essential for postsynaptic signaling. Inhibitory regulator of the Ras-cAMP pathway. Member of the NMDAR signaling complex in excitatory synapses, it may play a role in NMDAR-dependent control of AMPAR potentiation, AMPAR membrane trafficking and synaptic plasticity. Regulates AMPAR-mediated miniature excitatory postsynaptic currents. May be involved in certain forms of brain injury, leading to long-term learning and memory deficits.                                  |
| <b>関連疾患</b>  | Defects in SYNGAP1 are the cause of mental retardation autosomal dominant type 5 (MRD5) [MIM:612621]. Mental retardation is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. MRD5 patients show global developmental delay with delayed motor development, hypotonia, moderate-to-severe mental retardation, and severe language impairment. Autism can be present in some patients. |
| <b>配列類似性</b> | Contains 1 C2 domain.<br>Contains 1 PH domain.<br>Contains 1 Ras-GAP domain.   |
| <b>翻訳後修飾</b> | Phosphorylated by CaM-kinase II. Dephosphorylated upon NMDA receptor activation or SYNGAP1/MPDZ complex disruption.  |

## 画像



**All lanes :** Anti-SynGAP antibody [EPR2883Y] (ab77235) at 1/1000 dilution

**Lane 1 :** Hippocampus (Rat) Tissue Lysate

**Lane 2 :** Cortex (Rat) Tissue Lysate

**Lane 3 :** Hippocampus (Mouse) Tissue Lysate

**Lane 4 :** Cortex (Mouse) Tissue Lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) preadsorbed at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

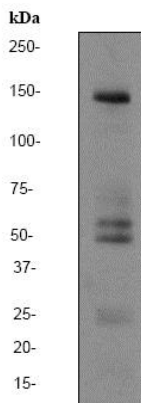
**Predicted band size:** 147 kDa

**Observed band size:** 130,148 kDa

**Exposure time:** 8 minutes

This blot was produced using a 3-8% Tris Acetate gel under the TA buffer system. The gel was run at 150V for 60 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab77235 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.

The doublet observed in the Western blot image is consistent with the literature (PMID:9581761).



Western blot - Anti-SynGAP antibody [EPR2883Y]  
(ab77235)

Anti-SynGAP antibody [EPR2883Y] (ab77235) at 1/1000 dilution + fetal brain lysate at 10 µg

#### **Secondary**

HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 147 kDa

**Observed band size:** 147 kDa

**Additional bands at:** 50 kDa, 55 kDa. We are unsure as to the identity of these extra bands.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-SynGAP antibody [EPR2883Y] (ab77235)

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

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