


### Anti-DARPP32 antibody [EP720Y] ab40801

リコンビナント **RabMAb**

★★★★☆ **11 Abreviews** **96 References** 画像数 10

#### 製品の概要

製品名	Anti-DARPP32 antibody [EP720Y]
製品の詳細	Rabbit monoclonal [EP720Y] to DARPP32
由来種	Rabbit
アプリケーション	<b>適用あり:</b> ICC/IF, WB, IHC-P, IP
種交差性	<b>交差種:</b> Mouse, Rat, Human <b>交差が予測される動物種:</b> Pig 
免疫原	Synthetic peptide within Human DARPP32 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: <a href="#">Q9UD71</a> (Peptide available as <a href="#">ab189245</a> )
ポジティブ・コントロール	IHC-P: Human breast adenocarcinoma tissue and colon tissue. Mouse and rat cerebral cortex tissue. ICC/IF: Mouse brain tissue. WB: Rat hippocampus and brain tissue lysate. Mouse cerebral cortex tissue lysate. Human fetal brain lysate. IP: Rat brain whole cell lysate. IHC-Wm: Mouse brain tissue. IHC-Fr: Pig brain tissue.
特記事項	<p>Protein phosphatase 1 regulatory subunit 1B (PPP1R1B) is a protein that in humans is encoded by the PPP1R1B gene. This gene, also known as DARPP-32, has a role as a dopamine- and cyclic AMP-regulated phosphoprotein. As such PPP1R1B affects dopamine glutamate and adenosine; and potentially has a role in conditions such as schizophrenia and Parkinson's disease.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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> <p>For more information <a href="#">see here</a>.</p> <p>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>.</p>

#### 製品の特性

製品の状態 Liquid

保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EP720Y
アイソタイプ	IgG

## アプリケーション

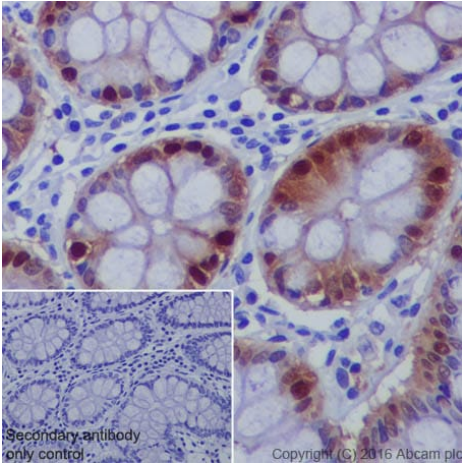
The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab40801の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
ICC/IF	★★★★☆ (2)	1/50 - 1/100.
WB	★★★★★ (3)	1/1000. Detects a band of approximately 32 kDa (predicted molecular weight: 32 kDa). <b>For unpurified use at 1/5000 - 1/50 000.</b>
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See <u><b>IHC antigen retrieval protocols.</b></u>
IP		1/20. <b>For unpurified use at 1/50.</b>

## ターゲット情報

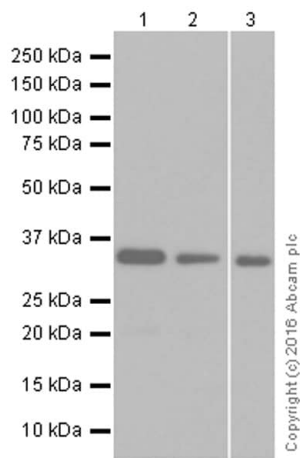
機能	Inhibitor of protein-phosphatase 1.
配列類似性	Belongs to the protein phosphatase inhibitor 1 family.
翻訳後修飾	Dopamine- and cyclic AMP-regulated neuronal phosphoprotein. Phosphorylation of Thr-34 is required for activity.
細胞内局在	Cytoplasm.

## 画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DARPP32 antibody [EP720Y] (ab40801)

Immunohistochemical analysis of paraffin-embedded human colon sections labelling DARPP32 with purified ab40801 at dilution of 1/50. The secondary antibody used was **ab97051**; a goat anti-rabbit IgG H&L (HRP) at dilution of 1/500. The sample was counterstained with hematoxylin. Antigen retrieval was performed using EDTA Buffer; pH 9.0. PBS was used instead of the primary antibody as the negative control and is shown in the inset.



Western blot - Anti-DARPP32 antibody [EP720Y] (ab40801)

**All lanes** : Anti-DARPP32 antibody [EP720Y] (ab40801) at 1/50000 dilution (purified)

**Lane 1** : Rat hippocampus tissue lysate

**Lane 2** : Rat brain tissue lysate

**Lane 3** : Mouse cerebral cortex tissue lysate

Lysates/proteins at 20 µg per lane.

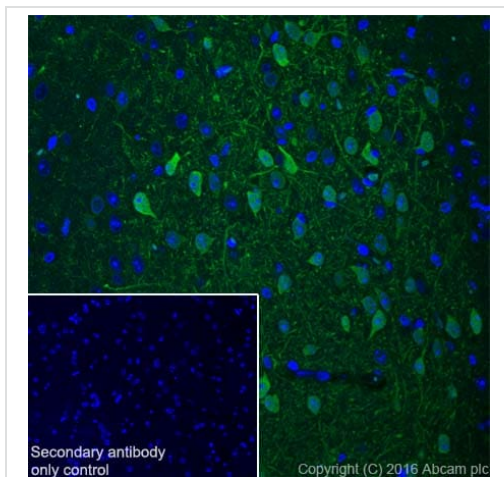
### Secondary

**All lanes** : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

**Predicted band size:** 32 kDa

**Observed band size:** 32 kDa

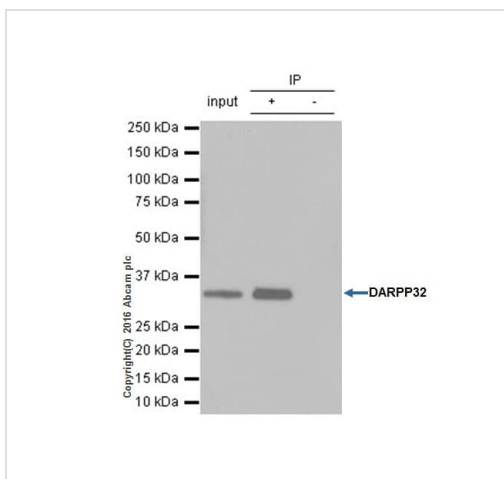
Blocking/Diluting buffer 5% NFDM/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-DARPP32 antibody [EP720Y] (ab40801)

Immunocytochemistry/Immunofluorescence analysis of mouse brain tissue labelling DARPP32 with purified ab40801 at 1/100 (3.4 µg/mL). Cells were fixed with 4% Paraformaldehyde and permeabilized with 0.2% Triton X-100. Antigen retrieval was performed with Heated citrate solution (10mM citrate PH 6.0 + 0.05% Tween-20). **ab150077**, Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000, 2 µg/mL) was used as the secondary antibody.

Secondary Only Control: PBS was used instead of the primary antibody as the negative control and is shown in the inset.



Immunoprecipitation - Anti-DARPP32 antibody [EP720Y] (ab40801)

ab40801 at 1/20 immunoprecipitating DARPP32 in rat brain whole cell lysate observed at 32 kDa (lanes 1 and 2).

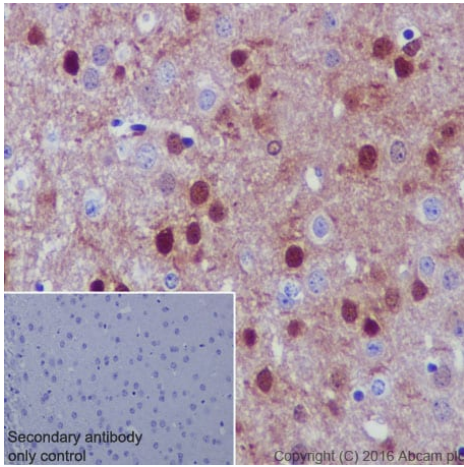
**Lane 1:** Rat brain whole cell lysate 10µg.

**Lane 2:** ab40801 IP in rat brain whole cell lysate.

**Lane 3:** Rabbit monoclonal IgG (**ab172730**) instead of ab40801 in rat brain whole cell lysate.

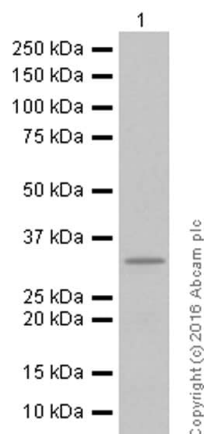
For western blotting, **ab131366** VeriBlot for IP (HRP) was used for detection (1/1000).

Blocking/Dilution buffer and concentration: 5% NFDm/TBST.



Immunohistochemical analysis of paraffin-embedded mouse cerebral cortex sections labelling DARPP32 with purified ab40801 at dilution of 1/50. The secondary antibody used was **ab97051**; a goat anti-rabbit IgG H&L (HRP) at dilution of 1/500. The sample was counterstained with hematoxylin. Antigen retrieval was performed using EDTA Buffer; pH 9.0. PBS was used instead of the primary antibody as the negative control and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DARPP32 antibody [EP720Y] (ab40801)



Anti-DARPP32 antibody [EP720Y] (ab40801) at 1/1000 dilution (purified) + Human fetal brain lysate at 15 µg

#### Secondary

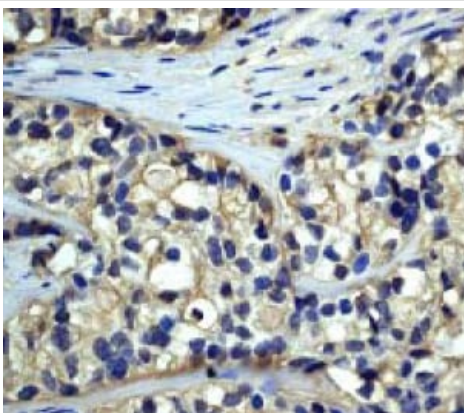
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

**Predicted band size:** 32 kDa

**Observed band size:** 32 kDa

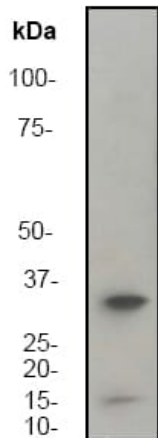
Western blot - Anti-DARPP32 antibody [EP720Y] (ab40801)

Blocking/Diluting buffer 5% NFDm/TBST



Immunohistochemical analysis of human breast adenocarcinoma sections labelling DARPP32 with unpurified ab40801 at a dilution of 1/50.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DARPP32 antibody [EP720Y] (ab40801)

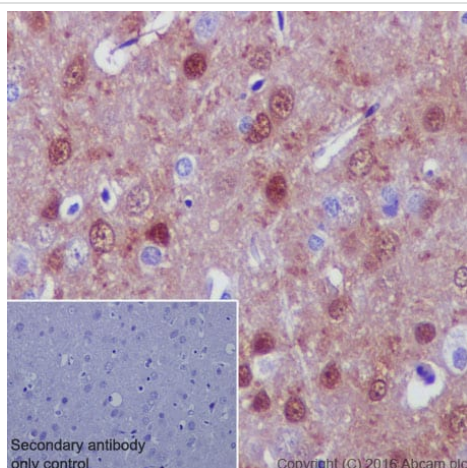


Western blot - Anti-DARPP32 antibody [EP720Y] (ab40801)

Anti-DARPP32 antibody [EP720Y] (ab40801) at 1/50000 dilution (unpurified) + Rat brain lysate at 10 µg

**Predicted band size:** 32 kDa

**Observed band size:** 32 kDa



Immunohistochemical analysis of paraffin-embedded rat cerebral cortex sections labelling DARPP32 with purified ab40801 at dilution of 1/50. The secondary antibody used was **ab97051**; a goat anti-rabbit IgG H&L (HRP) at dilution of 1/500. The sample was counterstained with hematoxylin. Antigen retrieval was performed using EDTA Buffer; pH 9.0. PBS was used instead of the primary antibody as the negative control and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DARPP32 antibody [EP720Y] (ab40801)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



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**Success from the first experiment**  
Confirmed specificity



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Anti-DARPP32 antibody [EP720Y] (ab40801)

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