abcam

Product datasheet

Anti-Pan Trk antibody [EPR18413] ab189903

リコンビナント RabMAb

画像数 5

製品の概要

製品名	Anti-Pan Trk antibody [EPR18413]
製品の詳細	Rabbit monoclonal [EPR18413] to Pan Trk
由来種	Rabbit
アプリケーション	**適用あり:** IP, WB
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Human, mouse and rat brain lysates; SH-SY5Y whole cell lysate; HEK-293 whole cell lysate transfected with TrkA, TrkB and TrkC, respectively. IP: Mouse brain whole cell lysate.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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 long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR18413
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ab189903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。

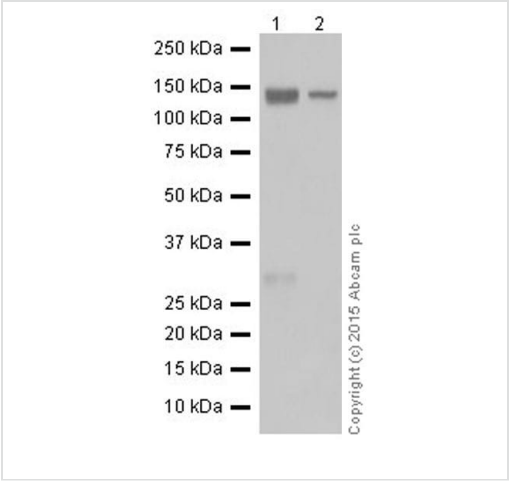
アプリケーション	Abreviews	特記事項
IP		1/40.
WB		1/1000. Detects a band of approximately 140,30 kDa (predicted molecular weight: 94 kDa).

ターゲット情報

関連性

Family of neurotrophic tyrosine kinase (NTRK1/2/3) genes which encode TrkA, TrkB and TrkC protein kinases. The three family members are activated by different neurotrophins: TrkA is activated by Nerve growth factor (NGF), TrkB by Brain-derived neurotrophic factor (BDNF) or neurotrophin-4 (NT-4) and TrkC by NT-3. Neurotrophin signalling activates cellular pathways involved in the development and the maturation of the central and peripheral nervous systems through regulation of proliferation, differentiation and survival of sympathetic and nervous neurons. Localization TrkA: Cell membrane. Early endosome membrane. Late endosome membrane. Internalized to endosomes upon binding of NGF or NT-3 and further transported to the cell body via a retrograde axonal transport. Localized at cell membrane and early endosomes before nerve growth factor (NGF) stimulation. Recruited to late endosomes after NGF stimulation. Colocalized with RAPGEF2 at late endosomes (By similarity). TrkB: Membrane. TrkC: Membrane.

画像



Western blot - Anti-Pan Trk antibody [EPR18413] (ab189903)

All lanes : Anti-Pan Trk antibody [EPR18413] (ab189903) at 1/1000 dilution

Lane 1 : Human brain tissue lysate
Lane 2 : SH-SY5Y (human neuroblastoma cell line from bone marrow) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
Lane 1 : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution
Lane 2 : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

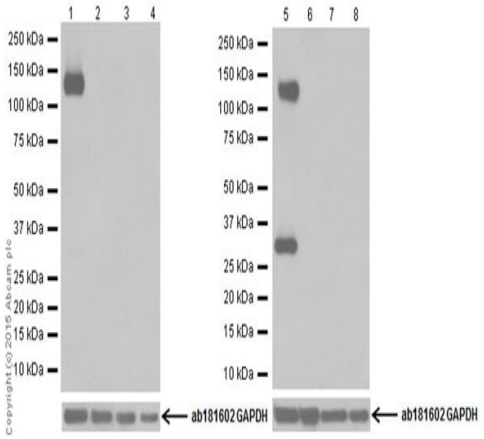
Predicted band size: 94 kDa

Observed band size: 140,30 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

TrkB is abundantly expressed in the central and peripheral nervous system. The 30KDa band is an intracellular fragment TrkB-ICD, and the 140KDa observed MW which is higher than the predicted one is due to the glycosylation modification.



Western blot - Anti-Pan Trk antibody [EPR18413] (ab189903)

All lanes : Anti-Pan Trk antibody [EPR18413] (ab189903) at 1/1000 dilution

Lane 1 : Mouse brain tissue lysate
Lane 2 : Mouse heart tissue lysate
Lane 3 : Mouse kidney tissue lysate
Lane 4 : Mouse spleen tissue lysate
Lane 5 : Rat brain tissue lysate
Lane 6 : Rat heart tissue lysate
Lane 7 : Rat kidney tissue lysate
Lane 8 : Rat spleen tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

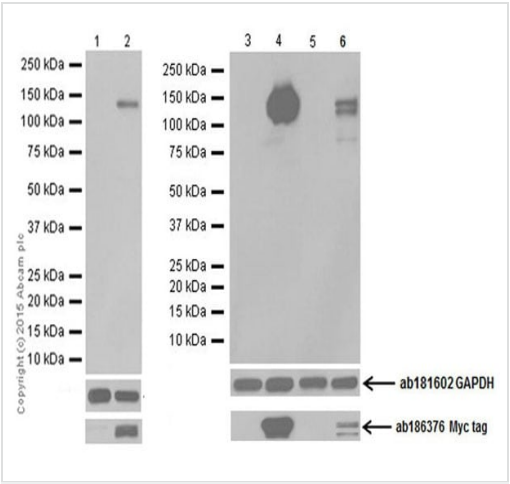
Developed using the ECL technique.

Predicted band size: 94 kDa
Observed band size: 140,30 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

TrkB is abundantly expressed in the central and peripheral nervous system. The 30KDa band is an intracellular fragment TrkB-ICD, and the 140KDa observed MW which is higher than the predicted one is due to the glycosylation modification.



Western blot - Anti-Pan Trk antibody [EPR18413] (ab189903)

All lanes : Anti-Pan Trk antibody [EPR18413] (ab189903) at 1/5000 dilution

Lanes 1 & 3 & 5 : HEK-293 (human epithelial cell line from embryonic kidney) whole cell lysate transfected with empty vector (vector control)
Lane 2 : HEK-293 (human epithelial cell line from embryonic kidney) whole cell lysate transfected with TrkA with His/Myc-tag
Lane 4 : HEK-293 (human epithelial cell line from embryonic kidney) whole cell lysate transfected with TrkB with His/Myc-tag
Lane 6 : HEK-293 (human epithelial cell line from embryonic kidney) whole cell lysate transfected with TrkC with His/Myc-tag

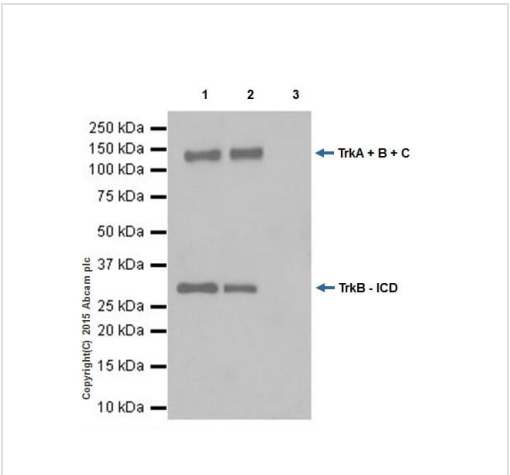
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 94 kDa

Exposure times: Lane 1-2: 1 minute; Lane 3-6: 30 seconds.

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunoprecipitation - Anti-Pan Trk antibody [EPR18413] (ab189903)

TrkC (phospho Y820) was immunoprecipitated from 1 mg of mouse brain whole cell lysate with ab189903 at 1/50 dilution. Western blot was performed from the immunoprecipitate using ab189903 at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP) (**ab131366**), was used as secondary antibody at 1/1000 dilution.

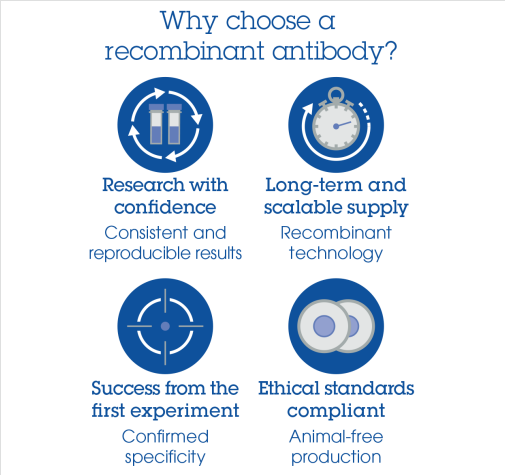
Lane 1: Mouse brain whole cell lysate 10 µg (Input).

Lane 2: ab189903 IP in mouse brain whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab189903 in mouse brain whole cell lysate.

Exposure time: 5 seconds.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.



Anti-Pan Trk antibody [EPR18413] (ab189903)

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