abcam

Product datasheet

Anti-MARK4 (phospho T214) + MARK2 (phospho T208) + MARK3 (phospho T234) + MARK1 (phospho T215) antibody [EPR5463] ab126731

リコンビナント RabMAb

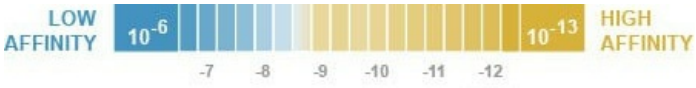
画像数 6

製品の概要

製品名	Anti-MARK4 (phospho T214) + MARK2 (phospho T208) + MARK3 (phospho T234) + MARK1 (phospho T215) antibody [EPR5463]
製品の詳細	Rabbit monoclonal [EPR5463] to MARK4 (phospho T214) + MARK2 (phospho T208) + MARK3 (phospho T234) + MARK1 (phospho T215)
由来種	Rabbit
特異性	This antibody only detects MARK1 phosphorylated at Threonine 215.
アプリケーション	**適用あり:** WB, Dot blot, ELISA **適用なし:** Flow Cyt,ICC/IF,IHC-P or IP
種交差性	**交差種:** Human **交差が予測される動物種:** Mouse, Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
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 -20°C. Stable for 12 months at -20°C.
解離定数（K_D 値）	$K_D = 1.62 \times 10^{-11}$ M



Learn more about K_D

バッファー	pH: 7.20 Preservative: 0.01% Sodium azide 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	EPR5463
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ab126731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。

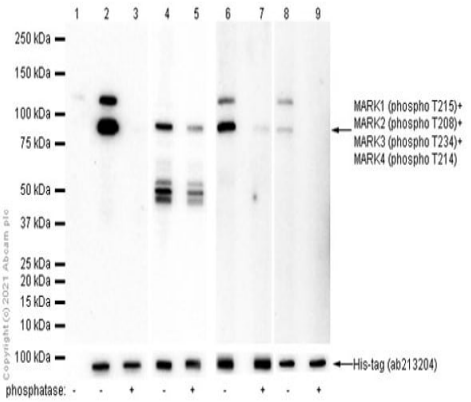
アプリケーション	Abreviews	特記事項
WB		1/10000 - 1/50000. Detects a band of approximately 110 kDa (predicted molecular weight: 89 kDa).
Dot blot		1/1000.
ELISA		Use a concentration of 1000 µg/ml.

追加情報 Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

ターゲット情報

細胞内局在 MARK4: Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, microtubule organizing center. Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton, cilium axoneme. Cytoplasm. Localized at the tips of neurite-like processes in differentiated neuroblast cells. Detected in the cytoplasm and neuropil of the hippocampus. MARK2: Cell membrane. Phosphorylated by PRKCZ in polarized epithelial cells, resulting in an interaction with YWHAZ which promotes relocation from the lateral to the apical membrane. MARK1: Cytoplasm > cytoskeleton. Appears to localize to an intracellular network.

画像



Western blot - Anti-MARK4 (phospho T214) + MARK2 (phospho T208) + MARK3 (phospho T234) + MARK1 (phospho T215) antibody [EPR5463] (ab126731)

Westernblot analysis of ab126731 at a 1/20 dilution. Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) was used as a scondary antibody at 1/20000 dilution.

Lane 1: HEK-293 (Human embryonic kidney epithelial cell) transfected with an empty vector (vector control), containing a myc-His-tag®, whole cell lysate 15µg

Lane 2: HEK-293 transfected with MARK1 expression vector containing a myc-His-tag®, whole cell lysate 15µg

Lane 3: HEK-293 transfected with MARK1 expression vector containing a myc-His-tag®, whole cell lysate 15µg, then the membrane treated with Alkaline Phosphatase for 1 hour

Lane 4: HEK-293 transfected with MARK2 expression vector containing a myc-His-tag®, whole cell lysate 15µg

Lane 5: HEK-293 transfected with MARK2 expression vector containing a myc-His-tag®, whole cell lysate 15µg, then the membrane treated with Alkaline Phosphatase for 1 hour

Lane 6: HEK-293 transfected with MARK3 expression vector containing a myc-His-tag®, whole cell lysate 15µg

Lane 7: HEK-293 transfected with MARK3 expression vector containing a myc-His-tag®, whole cell lysate 15µg, then the membrane treated with Alkaline Phosphatase for 1 hour

Lane 8: HEK-293 transfected with MARK4 expression vector containing a myc-His-tag®, whole cell lysate 15µg

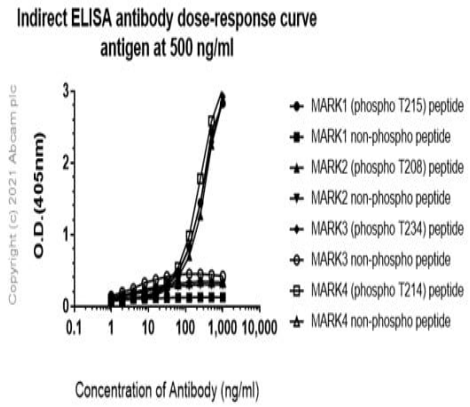
Lane 9: HEK-293 transfected with MARK4 expression vector containing a myc-His-tag®, whole cell lysate 15µg, then the membrane treated with Alkaline Phosphatase for 1 hour

Exposure time:

Lane 1 – 3, 6 - 9: 180 seconds

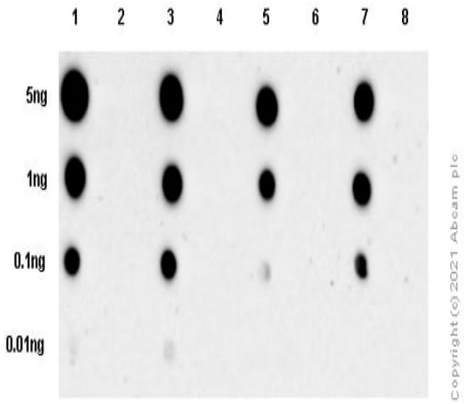
Lane 4 - 5: 7 seconds

Endogenous MARK proteins are observed at ~110 kDa reported by PMID: 9108484 and 16238695



ELISA - Anti-MARK4 (phospho T214) + MARK2 (phospho T208) + MARK3 (phospho T234) + MARK1 (phospho T215) antibody [EPR5463] (ab126731)

Indirect ELISA antibody dose-response curve using ab126731 between 0-10000 ng/ml. Antigen concentration of 500 ng/mL. An alkaline phosphatase-conjugated goat anti-rabbit IgG (H+L) (1/2500) was used as the secondary antibody.



Dot Blot - Anti-MARK4 (phospho T214) + MARK2 (phospho T208) + MARK3 (phospho T234) + MARK1 (phospho T215) antibody [EPR5463] (ab126731)

Dot Blot using ab126731 at a 1/1000 dilution and Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at a 1/100000 dilution

Lane 1: Human MARK1 (T215) phospho peptide

Lane 2: Human MARK1 non-phospho peptide

Lane 3: Human MARK2 (T208) phospho peptide

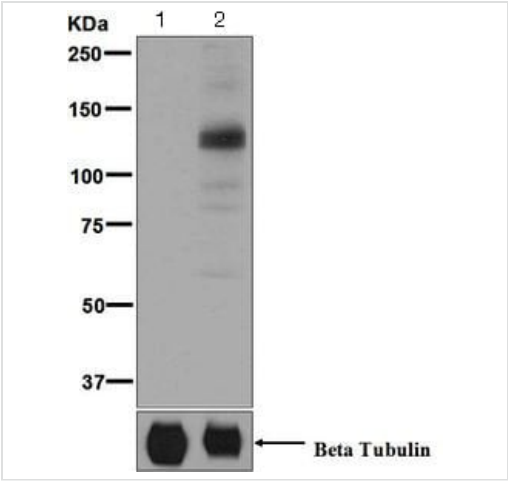
Lane 4: Human MARK2 non-phospho peptide

Lane 5: Human MARK3 (T234) phospho peptide

Lane 6: Human MARK3 non-phospho peptide

Lane 7: Human MARK4 (T214) phospho peptide

Lane 8: Human MARK4 non-phospho peptide



Western blot - Anti-MARK4 (phospho T214) + MARK2 (phospho T208) + MARK3 (phospho T234) + MARK1 (phospho T215) antibody [EPR5463] (ab126731)

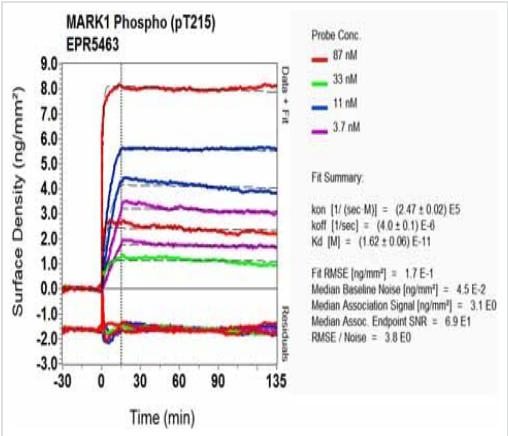
All lanes : Anti-MARK4 (phospho T214) + MARK2 (phospho T208) + MARK3 (phospho T234) + MARK1 (phospho T215) antib (ab126731) at 1/10000 dilution

Lane 1 : SH-SY5Y cell lysate, untreated
Lane 2 : SH-SY5Y cell lysate, treated with Okadaic acid and Calyculin A

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 89 kDa

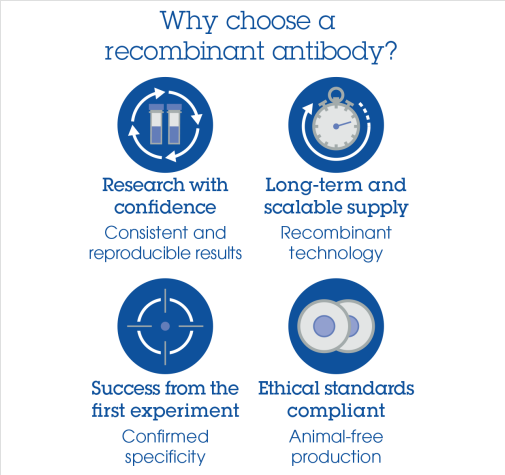


OI-RD Scanning - Anti-MARK4 (phospho T214) + MARK2 (phospho T208) + MARK3 (phospho T234) + MARK1 (phospho T215) antibody [EPR5463] (ab126731)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Anti-MARK4 (phospho T214) + MARK2 (phospho T208) + MARK3 (phospho T234) + MARK1 (phospho T215) antibody [EPR5463] (ab126731)

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