abcam

Product datasheet

Anti-Eph receptor A2 antibody [3D7] ab118882

6 Abreviews 2 References 画像数 5

製品の概要

製品名	Anti-Eph receptor A2 antibody [3D7]
製品の詳細	Mouse monoclonal [3D7] to Eph receptor A2
由来種	Mouse
アプリケーション	**適用あり:** WB, ELISA, IHC-P
種交差性	**交差種:** Mouse, Human
免疫原	Recombinant fragment, corresponding to amino acids 559-976 of Human Eph receptor A2 (NP_004422).
ポジティブ・コントロール	WB: Mouse brain extracts IHC-P: Human testis, thyroid, colon cancer and gastric cancer tissues.
特記事項	Abcam is committed to meeting high standards of ethical manufacturing and as such, we will be discontinuing this product, which has been generated by the ascites method, within the next year. We are sorry for any inconvenience this may cause. If you would like help finding an alternative product, please do not hesitate to contact our scientific support team.

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.
バッファー	pH: 7.40 Preservative: 0.1% Sodium azide Constituent: 99% PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	3D7
アイソタイプ	IgG2b
軽鎖の種類	kappa

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ab118882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	★★★☆☆ (2)	1/500 - 1/2000. Predicted molecular weight: 108 kDa.
ELISA		Use at an assay dependent concentration.
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ターゲット情報

機能
Receptor for members of the ephrin-A family. Binds to ephrin-A1, -A3, -A4 and -A5. Plays an important role in angiogenesis and tumor neovascularization. The recruitement of VAV2, VAV3 and PI3-kinase p85 subunit by phosphorylated EPHA2 is critical for EFNA1-induced RAC1 GTPase activation and vascular endothelial cell migration and assembly (By similarity). Induces apoptosis in a p53/TP53-independent, caspase-8-dependent manner.

組織特異性
Expressed in brain and glioma tissue and glioma cell lines (at protein level). Expressed most highly in tissues that contain a high proportion of epithelial cells, e.g., skin, intestine, lung, and ovary.

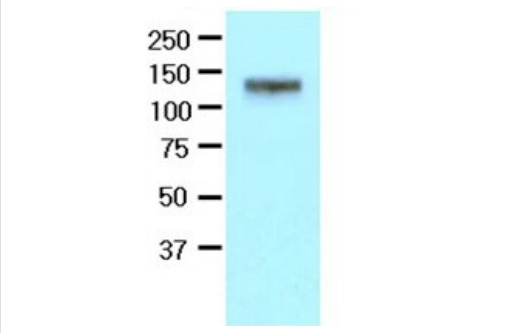
関連疾患
Genetic variations in EPHA2 are the cause of susceptibility to cataract cortical age-related type 2 (ARCC2) [MIM:613020]. A developmental punctate opacity common in the cortex and present in most lenses. The cataract is white or cerulean, increases in number with age, but rarely affects vision.
Defects in EPHA2 are the cause of cataract posterior polar type 1 (CTPP1) [MIM:116600]. A subcapsular opacity, usually disk-shaped, located at the back of the lens. It can have a marked effect on visual acuity.

配列類似性
Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.
Contains 2 fibronectin type-III domains.
Contains 1 protein kinase domain.
Contains 1 SAM (sterile alpha motif) domain.

翻訳後修飾
Activated by EFNA1 via tyrosine phosphorylation. Phosphorylated residues Tyr-588 and Tyr-594 are required for binding VAV2 and VAV3 while phosphorylated residues Tyr-735 and Tyr-930 are required for binding PI3-kinase p85 subunit. These phosphorylated residues are critical for recruitment of VAV2 and VAV3 and PI3-kinase p85 subunit which transduce downstream signaling to activate RAC1 GTPase and endothelial cell migration. They also play a critical role in transducing EPHA2 signaling in vascular endothelial cells during tumor angiogenesis.

細胞内局在
Membrane.

画像



Western blot - Anti-Eph receptor A2 antibody [3D7] (ab118882)

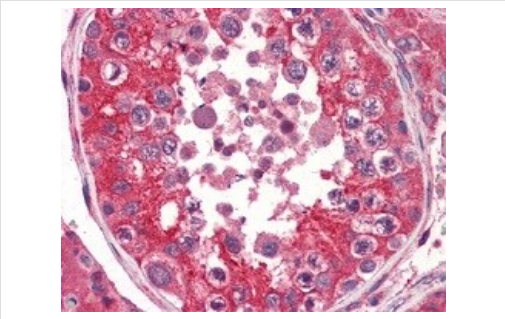
Anti-Eph receptor A2 antibody [3D7] (ab118882) at 1/500 dilution + Mouse brain extracts at 50 µg

Secondary

Goat anti-Mouse conjugated to HRP

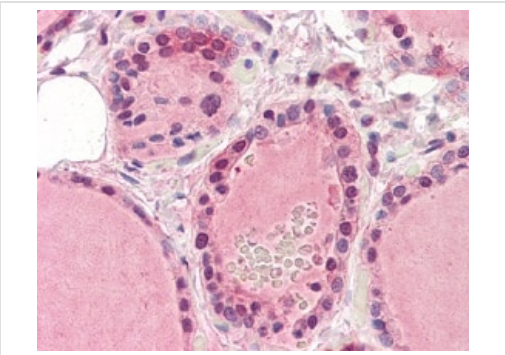
Developed using the ECL technique.

Predicted band size: 108 kDa



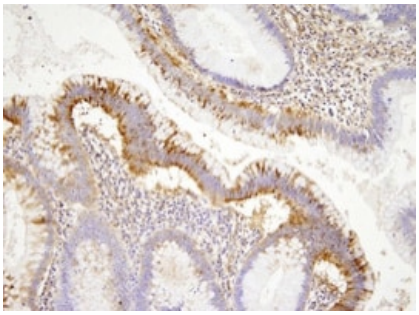
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Eph receptor A2 antibody [3D7] (ab118882)

Human testis (formalin fixed, paraffin embedded) stained with ab118882 at 5 µg/ml, followed by biotinylated anti-Mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



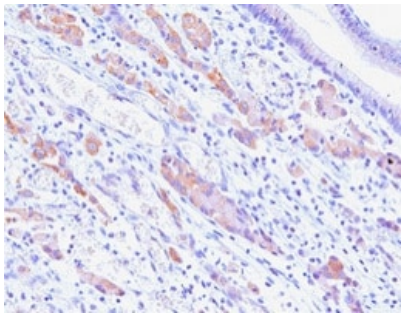
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Eph receptor A2 antibody [3D7] (ab118882)

Human thyroid tissue (formalin fixed, paraffin embedded) stained with ab118882 at 5 µg/ml, followed by biotinylated anti-Mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Eph receptor A2 antibody [3D7] (ab118882)

Paraffin embedded sections of Human colon cancer tissue were incubated with ab118882 (1/100) for 2 hours at room temperature. Antigen retrieval was performed in 0.1 M sodium citrate buffer and detected using Diaminobenzidine (DAB).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Eph receptor A2 antibody [3D7] (ab118882)

Paraffin embedded sections of Human gastric cancer tissue were incubated with **ab18882** (1/100) for 2 hours at room temperature. Antigen retrieval was performed in 0.1 M sodium citrate buffer and detected using Diaminobenzidine (DAB).

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