


Product datasheet

Anti-RASA1 antibody [B4F8] ab2922

3 References [画像数 4](#)

製品の概要

製品名	Anti-RASA1 antibody [B4F8]
製品の詳細	Mouse monoclonal [B4F8] to RASA1
特異性	This antibody is specific for RASA1 (an alternate name of GAP).
アプリケーション	適用あり: ICC/IF, IP, WB
種交差性	交差種: Mouse, Rat, Cow, Human 交差が予測される動物種: Non human primates 
免疫原	Recombinant full length protein corresponding to Human RASA1.
エピトープ	Epitope mapping studies suggest that this antibody binds a portion of GAP that contains the src homology regions SH2 and SH3.
ポジティブ・コントロール	RS-2 cell lysate. Mouse fibroblast cells.

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 or -80°C. Avoid freeze / thaw cycle.
精製度	Protein A purified
一次抗体 備考	GTPase Activating Protein (GAP) is capable of stimulating the hydrolysis of GTP by ras p21 proteins, though GAP has little effect on the oncogenic forms of ras. It is also known that several tyrosine kinases such as platelet derived growth factor receptor and epidermal growth factor receptor are involved in the tyrosine phosphorylation of GAP. It has therefore been suggested that GAP may provide a connection or link between growth factor receptors and the ras p21 family.
ポリ/モノ	モノクローナル
クローン名	B4F8
アイソタイプ	IgG2a

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab2922** in the following tested applications.

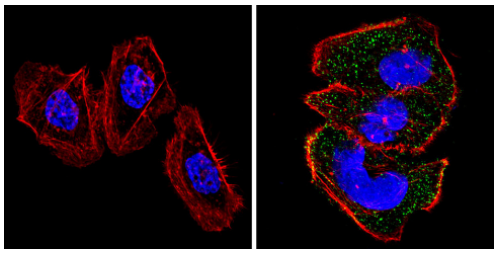
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
ICC/IF		Use a concentration of 5 µg/ml. Immunofluorescence staining of GAP in mouse fibroblast cells results in diffuse cytoplasmic staining. Following the addition of PDGF, immunofluorescence staining shows that some GAP rapidly translocates to the plasma membrane.
IP		Use at an assay dependent concentration. 1-5µg. This antibody immunoprecipitates GAP complexed with GAP related p190.
WB		Use a concentration of 10 µg/ml. By Western blot, this antibody recognizes a single 120 kDa protein representing ras GAP from RS-2 cell lysate.

ターゲット情報

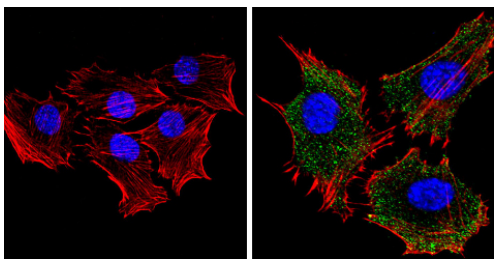
機能	Inhibitory regulator of the Ras-cyclic AMP pathway. Stimulates the GTPase of normal but not oncogenic Ras p21.
組織特異性	In placental villi, detected only in the trophoblast layer (cytotrophoblast and syncytiotrophoblast). Not detected in stromal, endothelial or Hofbauer cells (at protein level).
関連疾患	Note=Mutations in the SH2 domain of RASA seem to be oncogenic and cause basal cell carcinomas. Defects in RASA1 are the cause of capillary malformation-arteriovenous malformation (CMAVM) [MIM:608354]. CMAVM is a disorder characterized by atypical capillary malformations that are multiple, small, round to oval in shape and pinkish red in color. These capillary malformations are associated with either arteriovenous malformation, arteriovenous fistula, or Parkes Weber syndrome. Defects in RASA1 are a cause of Parkes Weber syndrome (PKWS) [MIM:608355]. PKWS is a disorder characterized by a cutaneous flush with underlying multiple micro-arteriovenous fistulas, in association with soft tissue and skeletal hypertrophy of the affected limb.
配列類似性	Contains 1 C2 domain. Contains 1 PH domain. Contains 1 Ras-GAP domain. Contains 2 SH2 domains. Contains 1 SH3 domain.
翻訳後修飾	The N-terminus is blocked.
細胞内局在	Cytoplasm.

画像



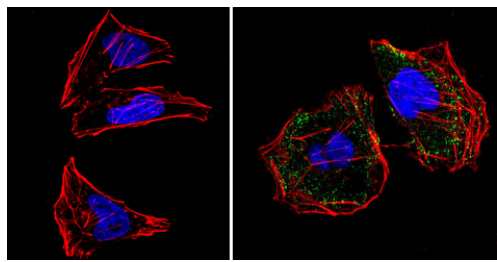
Immunocytochemistry/ Immunofluorescence - Anti-RASA1 antibody [B4F8] (ab2922)

ab2922 labelling GAP (green) in the cytoplasm of A431 cells (right) compared with a negative control (left) by Immunocytochemistry/Immunofluorescence. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes, blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were incubated with the primary antibody (1:200 in 3% BSA-PBS) overnight at 4 °C. A DyLight 488-conjugated Goat anti-mouse IgG (H+L) was used as the secondary antibody. Red (phalloidin) - F-actin, Bue (DAPI) - nuclei. Images were taken at a magnification of 60x.



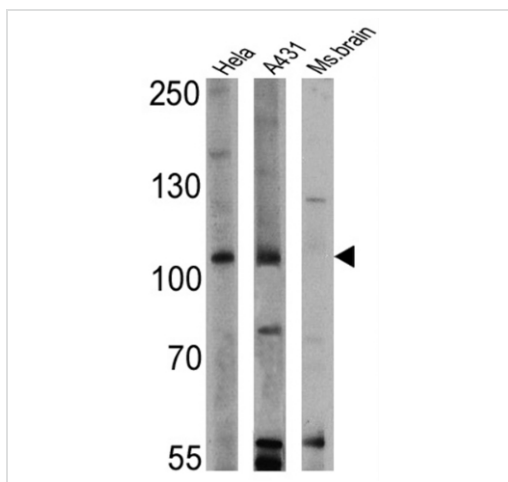
Immunocytochemistry/ Immunofluorescence - Anti-RASA1 antibody [B4F8] (ab2922)

ab2922 labelling GAP (green) in the cytoplasm of C2C12 cells (right) compared with a negative control (left) by Immunocytochemistry/Immunofluorescence. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes, blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were incubated with the primary antibody (1:200 in 3% BSA-PBS) overnight at 4 °C. A DyLight 488-conjugated Goat anti-mouse IgG (H+L) was used as the secondary antibody. Red (phalloidin) - F-actin, Bue (DAPI) - nuclei. Images were taken at a magnification of 60x.



Immunocytochemistry/ Immunofluorescence - Anti-RASA1 antibody [B4F8] (ab2922)

ab2922 labelling GAP (green) in the cytoplasm of HeLa cells (right) compared with a negative control (left) by Immunocytochemistry/Immunofluorescence. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes, blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were incubated with the primary antibody (1:200 in 3% BSA-PBS) overnight at 4 °C. A DyLight 488-conjugated Goat anti-mouse IgG (H+L) was used as the secondary antibody. Red (phalloidin) - F-actin, Bue (DAPI) - nuclei. Images were taken at a magnification of 60x.



Western blot - Anti-GAP antibody [B4F8] (ab2922)

All lanes : Anti-RASA1 antibody [B4F8] (ab2922) at 1/200 dilution

Lane 1 : HeLa cell lysate

Lane 2 : A431 cell lysate

Lane 3 : Mouse brain cell lysate

Lysates/proteins at 25 µg per lane.

Observed band size : 110 kDa

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