abcam

Product datasheet

HRP Anti-RASA1 antibody [EP536Y] ab204006

Recombinant RabMAb

2 Images

Overview

Product name	HRP Anti-RASA1 antibody [EP536Y]
Description	HRP Rabbit monoclonal [EP536Y] to RASA1
Host species	Rabbit
Conjugation	HRP
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Rat **Predicted to work with:** Mouse, Human
Immunogen	Synthetic peptide within Human RASA1 aa 250-350 (internal sequence). The exact sequence is proprietary. From near the SH3 domain. Database link: **P20936**
Positive control	WB: Rat brain tissue lysate.
General notes	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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EP536Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab204006 in the following tested applications.

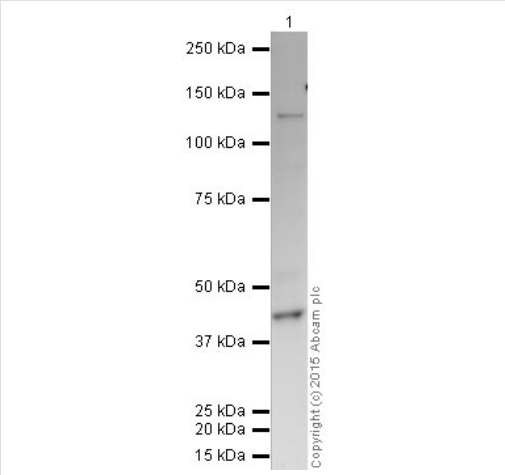
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000. Detects a band of approximately 140,45 kDa (predicted molecular weight: 116 kDa).

Target

Function	Inhibitory regulator of the Ras-cyclic AMP pathway. Stimulates the GTPase of normal but not oncogenic Ras p21.
Tissue specificity	In placental villi, detected only in the trophoblast layer (cytotrophoblast and syncytiotrophoblast). Not detected in stromal, endothelial or Hofbauer cells (at protein level).
Involvement in disease	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.
Sequence similarities	Contains 1 C2 domain. Contains 1 PH domain. Contains 1 Ras-GAP domain. Contains 2 SH2 domains. Contains 1 SH3 domain.
Post-translational modifications	The N-terminus is blocked.
Cellular localization	Cytoplasm.

Images



Western blot - HRP Anti-RASA1 antibody [EP536Y] (ab204006)

HRP Anti-RASA1 antibody [EP536Y] (ab204006) at 1/5000 dilution + Brain (Rat) Tissue Lysate at 10 µg

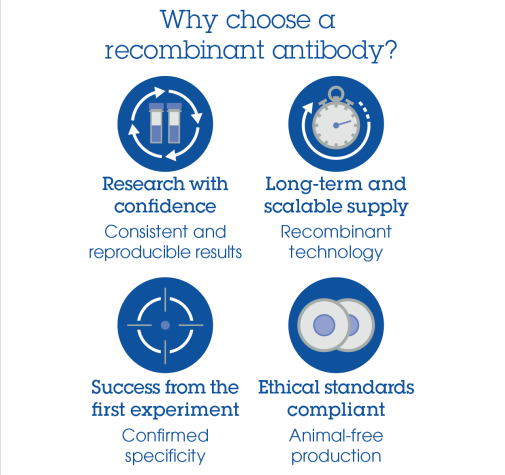
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 116 kDa
Observed band size: 140,45 kDa

Exposure time: 20 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab204006 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.



HRP Anti-RASA1 antibody [EP536Y] (ab204006)

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