


## Product datasheet

### Anti-RASA1 antibody [EP536Y] ab40677

Recombinant RabMAb

[10 References](#) [3 Images](#)

#### Overview

Product name	Anti-RASA1 antibody [EP536Y]
Description	Rabbit monoclonal [EP536Y] to RASA1
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt or IP
Species reactivity	<b>Reacts with:</b> Rat, Human <b>Predicted to work with:</b> Mouse 
Immunogen	Synthetic peptide within Human RASA1 aa 250-350 (internal sequence). The exact sequence is proprietary. From near the SH3 domain. Database link: <a href="#">P20936</a>
Positive control	WB: Rat brain tissue lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### 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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP536Y
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab40677 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

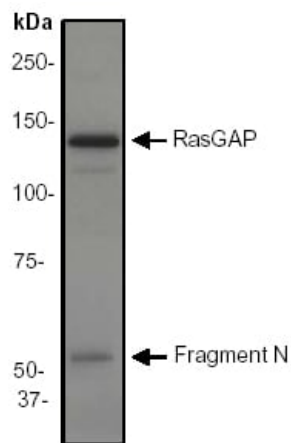
Application	Abreviews	Notes
<b>WB</b>		1/2000. Detects a band of approximately 140 kDa (predicted molecular weight: 96 kDa).
<b>IHC-P</b>		1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

**Application notes** Is unsuitable for Flow Cyt or IP.

## Target

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

## Images



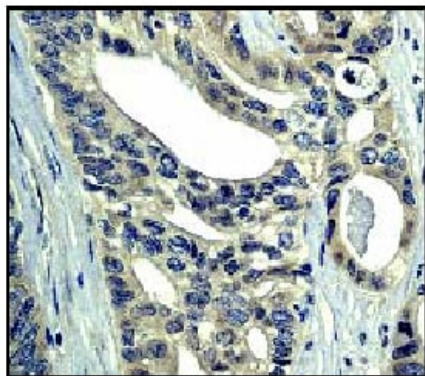
Western blot - Anti-RASA1 antibody [EP536Y]  
(ab40677)

Anti-RASA1 antibody [EP536Y] (ab40677) at 1/2000 dilution + Rat brain tissue lysate at 10 µg

**Predicted band size:** 96 kDa

**Observed band size:** 140 kDa

**Additional bands at:** 55 kDa (possible cleavage fragment)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RASA1 antibody [EP536Y] (ab40677)

Immunohistochemical analysis of paraffin embedded human ovary carcinoma using ab40677 diluted 1:50.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-RASA1 antibody [EP536Y] (ab40677)

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