



# Anti-RASA1 (aa 948-1047) polyclonal antibody (DPAB-DC2673)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Antigen Description

The protein encoded by this gene is located in the cytoplasm and is part of the GAP1 family of GTPase-activating proteins. The gene product stimulates the GTPase activity of normal RAS p21 but not its oncogenic counterpart. Acting as a suppressor of RAS function, the protein enhances the weak intrinsic GTPase activity of RAS proteins resulting in the inactive GDP-bound form of RAS, thereby allowing control of cellular proliferation and differentiation. Mutations leading to changes in the binding sites of either protein are associated with basal cell carcinomas. Mutations also have been associated with hereditary capillary malformations (CM) with or without arteriovenous malformations (AVM) and Parkes Weber syndrome. Alternative splicing results in two isoforms where the shorter isoform, lacking the N-terminal hydrophobic region but retaining the same activity, appears to be abundantly expressed in placental but not adult tissues.

### Immunogen

RASA1 (NP\_002881, 948 a.a. ~ 1047 a.a) partial recombinant protein with GST tag. The sequence is  
AKEPYMEGVNPFIKSNKHRMIMFLDELGNVPELPDTTEHSRTDLSRDLAALHEICVAHSD  
ELRTLSNERGAQQHVLKLLAITELLQQKQNKQYTKTNDVR

### Source/Host

Mouse

### Species Reactivity

Human

### Conjugate

Unconjugated

### Applications

ELISA,

### Size

50 µl

### Buffer

50 % glycerol

### Preservative

None

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

Gene Name	<a href="#">RASA1 RAS p21 protein activator (GTPase activating protein) 1 [ Homo sapiens (human) ]</a>
Official Symbol	RASA1
Synonyms	RASA1; RAS p21 protein activator (GTPase activating protein) 1; GAP; PKWS; RASA; CMAVM; CM-AVM; RASGAP; p120GAP; p120RASGAP; ras GTPase-activating protein 1; triphosphatase-activating protein;
Entrez Gene ID	<a href="#">5921</a>
Protein Refseq	<a href="#">NP_002881</a>
UniProt ID	<a href="#">P20936</a>
Chromosome Location	5q13.3
Pathway	Angiopoietin receptor Tie2-mediated signaling; Aurora B signaling; Axon guidance; BCR signaling pathway
Function	GTPase binding; Ras GTPase activator activity; glycoprotein binding; potassium channel inhibitor activity