



Anti-RAB27A (full length) polyclonal antibody (DPABT-H29044)

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

PRODUCT INFORMATION

Product Overview	Rabbit Anti-Rab27a Polyclonal Antibody
Antigen Description	Rab 27 proteins are members of the Rab protein family that belongs to the ras-related superfamily of small monomeric GTPases. These proteins are involved in intracellular fusion reactions of vesicles or organelles with their target membranes. Two Rab 27 isoforms, Rab 27A and 27B, have been described so far. Mutations in the Rab 27A gene have been shown to be responsible for the Griscelli syndrome characterized by pigment dilution of the hair and an uncontrolled T-lymphocyte and macrophage activation. This disorder is probably due to the dysfunction of melanosomes in melanocytes and lytic granules in CTLs. Additionally Rab 27A is located on mature insulin granules of pancreatic Beta-cells and is expressed in the pigment epithelium and choriocapillaris of the retina. In patients who suffer from Griscelli syndrome because of missense mutations in the Rab 27A gene, Rab 27B is upregulated and partially compensates for Rab 27A dysfunction. Rab 27B also regulates amylase secretion in parotid acinar cells. Recently it has been shown that Rab 27 is also involved in synaptic transmission in <i>C. elegans</i> .
Specificity	Specific for rab 27A, no cross reaction to rab 27B.
Target	Rab27a
Immunogen	Purified recombinant full length rat rab 27A.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat
Conjugate	Unconjugated

Applications	WB, IP
Format	Affinity purified
Size	50 µg
Preservative	None
Storage	-20°C, avoid repeated freeze/thaw cycles

GENE INFORMATION

Gene Name	Rab27a RAB27A, member RAS oncogene family [Mus musculus]
Official Symbol	Rab27a
Synonyms	RAB27A; RAB27A, member RAS oncogene family; ras-related protein Rab-27A; ashen; ash; 2210402C08Rik; 2410003M20Rik; 4933437C11Rik;
Entrez Gene ID	11891
Protein Refseq	NP_076124
UniProt ID	Q544U7
Pathway	Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Insulin Synthesis and Processing, organism-specific biosystem; cyclic AMP biosynthesis, organism-specific biosystem;
Function	GTP binding; GTPase activity; myosin V binding; nucleotide binding; protein binding; protein domain specific binding;