Data Sheet (Cat.No.TMAC-03487)

Anti-Rab9 Antibody (9V943)

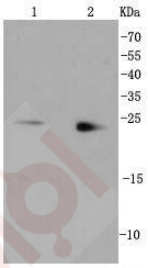
Product Details

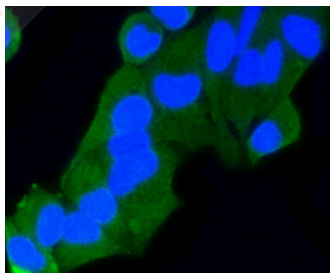
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 23 kDa.
Clone:	9V943
Purification:	ProA affinity purified

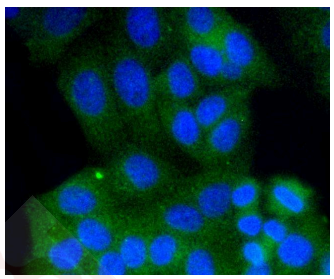
Applications

Verified Activity:

1. Western blot analysis of Rab9 on different lysates using anti-Rab9 antibody at 1/1,000 dilution. Positive control: Lane 1: HepG2, Lane 2: K562.
2. ICC staining Rab9 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
3. ICC staining Rab9 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.







Application:	ICC/IF,WB
Recommended	WB: 1:1000-2000; ICC/IF: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P51151

Synonyms: RAB9 member RAS oncogene family;RAB9A;AI195561;RAB9A_HUMAN;Rab 9;Ras related protein Rab 9A;Sid6061p;RAS ASSOCIATED PROTEIN RAB9;2410064E05Rik;Sid99;RAB9A member RAS oncogene family;Ras-related protein Rab-9A;RAB 9A;DmRab9

Research Background

The Ras-related superfamily of guanine nucleotide binding proteins, which includes the R-Ras, Rap, Ral/Rec and Rho/Rab subfamilies exhibit 30-60% homology with Ras p21. Accumulating data suggests an important role for Rab proteins, either in endocytosis or in biosynthetic protein transport. The transport of newly synthesized proteins from the endoplasmic reticulum to various stacks of the Golgi complex and to secretory vesicles involves at each stage the movement of carrier vesicles, a process that appears to involve Rab protein function. The possibility that Rab proteins might also direct the exocytosis from secretory vesicles to the plasma membrane is supported by the observation that in yeast, the SEC4 protein, which is 40% homologous to Rab proteins, is associated with secretory vesicles. At least eight members of the Rab subfamily have been identified, each of which is found at a particular stage of a membrane transport pathway.

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