Data Sheet (Cat.No.TMAB-12004)

Anti-RAB5B Antibody (3H179)

Product Details

Ig Type:	IgG1, k
Reactivity:	Human,Mouse
Molecular Weight:	Theoretical: 24 kDa. Actual: 26 kDa.
Clone:	3H179
Purification:	Protein G purified

Applications

Verified Activity:	1. Sample: Lane 1: A431 cell lysates Primary: Anti-RAB5B (TMAB-12004) at 1/2000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 24 kD Observed band size: 24 kD 2. Sample: Lane 1: Hela cell lysates Lane 2: HepG2 cell lysates Lane 3: Jurkat cell lysates Lane 4: NIH-3T3 cell lysates Primary: Anti-RAB5B (TMAB-12004) at 1/2000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 24 kD Observed band size: 26 kD
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. 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: human RAB5B
Antigen Species:	Human
Gene ID:	5869
Uniprot ID:	P61020

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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