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Rab4 Antibody

Store at -20C
#2167

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Hm Mk	Endogenous	25	Rabbit	#P20338	5867

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Rab4 Antibody detects endogenous levels of total Rab4 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp128 of human Rab4 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Rab4 is a member of the Ras superfamily of small Rab GTPases implicated in endocytosis. Rab4 is localized at early endosomes/recycling endosomes and functions as a key regulator for sorting/recycling of membrane and proteins (1,2). Rab4 has two isoforms, Rab4A and Rab4B, both of which are localized in similar cellular compartments and are believed to have similar functions (4). Rab4 interacts with several Rab4 effectors in a complex on a special endosome site that promotes membrane/protein recycling (1,3).

Background References

1. Zerial, M. and McBride, H. (2001) *Nat. Rev. Mol. Cell Biol.* 2, 107-117.
2. van der Sluijs, P. et al. (1992) *Cell* 70, 729-740.
3. Deneka, M. et al. (2003) *EMBO J.* 22, 2645-2657.
4. Krawczyk, M. et al. (2007) *Nucleic Acids Res.* 35, 595-605.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Hm:** Hamster **Mk:** Monkey

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