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#5740

## Arf6 (D12G6) Rabbit mAb

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

<b>Applications:</b> W, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 19	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P62330	<b>Entrez-Gene Id:</b> 382
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
1:50

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

Arf6 (D12G6) Rabbit mAb detects endogenous levels of total Arf6 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg100 of human Arf6 protein.

### Background

ADP-ribosylation factor (Arf) proteins are low molecular weight GTP binding proteins that belong to the Ras GTPase superfamily (1). Arf proteins are grouped into three distinct classes based on amino acid sequence and structural similarity, with Arf6 as the single class III protein to date. Arf6 is localized mainly to the plasma membrane and endosomes (1,2). This small GTPase interacts with PIP5K, PLD and Rac1, proteins important in lipid metabolism and actin regulation. Arf6 function depends upon its cycling between GDP- and GTP-bound states, which is regulated by associated GAP and GEF factors (3,4). Plasma membrane-associated Arf6 appears to play several functions during the many steps of membrane trafficking, including regulating membrane receptor internalization in both clathrin-dependent and independent pathways, endosomal recycling, and proximal actin reorganization and remodeling (5,6).

### Background References

- Gillingham, A.K. and Munro, S. (2007) *Annu Rev Cell Dev Biol* 23, 579-611.
- Donaldson, J.G. and Honda, A. (2005) *Biochem Soc Trans* 33, 639-42.
- Sakagami, H. (2008) *Tohoku J Exp Med* 214, 191-8.
- Casanova, J.E. (2007) *Traffic* 8, 1476-85.
- D'Souza-Schorey, C. and Chavrier, P. (2006) *Nat Rev Mol Cell Biol* 7, 347-58.
- Donaldson, J.G. (2003) *J Biol Chem* 278, 41573-6.

### 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 BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

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

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