

#14608 Store at -20°C

**ARFGAP1 (D4C2M) Rabbit mAb****Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R	Endogenous	45	Rabbit IgG	#Q8N6T3	55738

**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**

ARFGAP1 (D4C2M) Rabbit mAb recognizes endogenous levels of total ARFGAP1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly177 of human ARFGAP1 protein.

**Background**

ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1) is a Golgi-localized protein that regulates vesicle formation and membrane trafficking (1). ARFGAP1 initiates cargo selection and COP1 vesicle formation by stimulating GTP hydrolysis of ADP-ribosylation factor ARF1 (2). This GTPase activating protein initiates vesicle transport by coupling vesicle formation with cargo sorting (3). ARFGAP1 plays an active role in the Golgi-to-ER retrograde, intra-Golgi, and trans-Golgi trafficking networks (1). Research studies indicate that ARFGAP1 can act as a GTPase activating protein for LRRK2, a large multifunction protein whose genetic mutations are associated with Parkinson's disease (4). ARFGAP1 regulates GTPase activity and promotes the kinase activity of LRRK2, which suggests some potential as a promising target for study of LRRK2 mediated neurodegeneration (4).

**Background References**

1. Inoue, H. and Randazzo, P.A. (2007) *Traffic* 8, 1465-75.
2. Kartberg, F. et al. (2010) *J Biol Chem* 285, 36709-20.
3. Yang, J.S. et al. (2002) *J Cell Biol* 159, 69-78.
4. Stafa, K. et al. (2012) *PLoS Genet* 8, e1002526.

**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****WB:** Western Blotting **IP:** Immunoprecipitation**Cross-Reactivity Key**

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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