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#14522

# ARFGAP1 (D9A4V) Rabbit mAb

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UniProt ID #Q8N6T3

New 09/14

**For Research Use Only. Not For Use In Diagnostic Procedures.**

Applications W, IP Endogenous	Species Cross-Reactivity* H	Molecular Wt. 45 kDa	Isotype Rabbit IgG**
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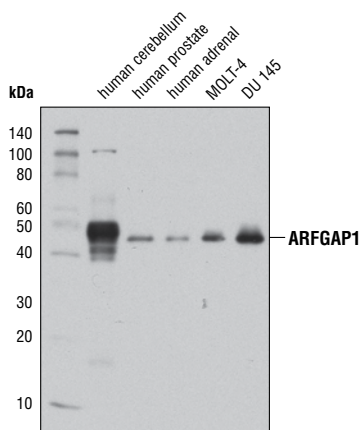
**Background:** ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1) is a Golgi-localized protein that regulates vesicle formation and membrane trafficking (1). ARFGAP1 initiates cargo selection and COP1 vesicle formation by stimulating GTP hydrolysis of ADP-ribosylation factor ARF1 (2). This 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).

**Specificity/Sensitivity:** ARFGAP1 (D9A4V) Rabbit mAb recognizes endogenous levels of total ARFGAP1 protein.

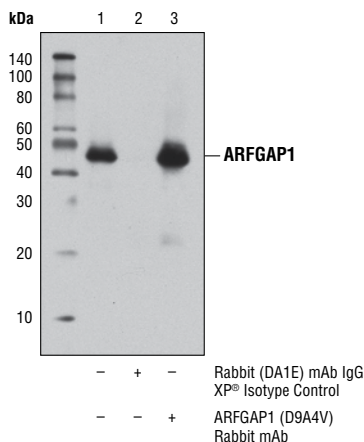
**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr338 of human ARFGAP1 protein.

**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.



Western blot analysis of extracts from various tissues and cell lines using ARFGAP1 (D9A4V) Rabbit mAb.



Immunoprecipitation of ARFGAP1 from MOLT-4 cell extracts using Rabbit (DA1E) mAb IgG XP® Isotype Control #3900 (lane 2) or ARFGAP1 (D9A4V) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using ARFGAP1 (D9A4V) Rabbit mAb.

**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.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

Western blotting	1:1000
Immunoprecipitation	1:50

For product specific protocols and a complete listing of recommended companion products please see the product web page at [www.cellsignal.com](http://www.cellsignal.com)

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

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.