

#3546 Store at -20°C

Arf6 Antibody



✓ 100 µl
(10 Western mini-blots)

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New 02/09

This product is for *in vitro* research use only and is not intended for use in humans or animals.
This product is not intended for use as a therapeutic or in diagnostic procedures.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R, Mk	19 kDa	Rabbit**

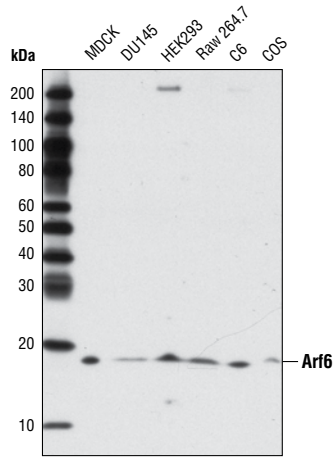
Background: ADP-ribosylation factor (Arf) proteins are low molecular weight GTP binding proteins that belong to the Ras GTPase superfamily (1). Arf proteins are grouped into three distinct classes based on amino acid sequence and structural similarity, with Arf6 as the single class III protein to date. Arf6 is localized mainly to the plasma membrane and to 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).

Specificity/Sensitivity: Arf6 Antibody detects endogenous levels of total Arf6 protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding to residues surrounding Gly165 of human Arf6 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

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



Western blot analysis of extracts from various cell lines using Arf6 Antibody.

Entrez-Gene ID #382
Swiss-Prot Acc. #P62330

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.

*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

For application specific protocols please see the web page for this product at www.cellsignal.com.

- Companion Products:**
- Phototope®-HRP Western Blot Detection System, Anti-rabbit IgG, HRP-linked Antibody #7071
 - Anti-rabbit IgG, HRP-linked Antibody #7074
 - Biotinylated Protein Ladder Detection Pack #7727
 - Prestained Protein Marker, Broad Range (Premixed Format) #7720
 - 20X LumiGLO® Reagent and 20X Peroxide #7003

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.