

## Anti-ArfGAP3 Antibody

Catalog Number: A06839

### About ARFGAP3

This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. The ArfGAPs are a family of proteins encoded by 31 genes in humans. The function of the ArfGAPs is to regulate the small G protein Arf, a regulator of membrane traffic and actin cytoskeleton. The ArfGAPs have been found to be key regulators of cellular behaviors that involve coordinated actin and membrane remodeling, including protein secretion and migration. Several ArfGAPs are associated with cancer cell invasion and metastasis, and the Arf pathway has been found to be affected in a number of genetic diseases. Although the importance of the ArfGAPs and the Arf pathway for cellular physiology is well recognized, the molecular basis for the function of these proteins has not been established. Reagents for the studies, especially antibodies specific for particular members of the ArfGAP family that can be used for immunoblotting and immunofluorescence, are not available. ArfGAP3 is one of three ArfGAPs thought to be specifically associated with the Golgi apparatus; however, localization has only been done for ectopically expressed recombinant protein and cellular function is still not established. Indeed, there is a growing controversy about the function of ArfGAP3 together with ArfGAP1 and ArfGAP2. Antibodies suitable for immunoprecipitation, immunoblotting and immunofluorescence would be of great value in addressing the controversy and for discovering the potential role of ArfGAP3 in secretion of proteins, such as growth factors, and trafficking of other proteins to the cell surface, such as growth factor receptors and cell adhesion molecules.

### Overview

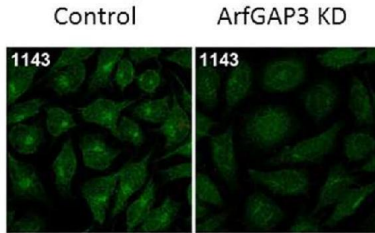
Product Name	Anti-ArfGAP3 Antibody
Reactive Species	Human
Description	Boster Bio Anti-ArfGAP3 Antibody (Catalog # A06839). Tested in IF, WB applications. This antibody reacts with Human.
Application	ELISA, IP, IF, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q9NP61

### Technical Details

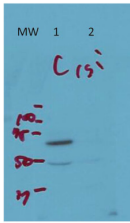
Immunogen	This whole rabbit serum was prepared by repeated immunizations with a truncated recombinant sequence of ArfGAP3 fused to GST.
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Predicted Reactive Species	Bovine, Canine, Guinea Pig
Isotype	Antiserum
Form	Liquid (sterile filtered)
Concentration	70mg/mL by Refractometry
Purification	Anti-ArfGAP3 antibody was prepared from monospecific antiserum by delipidation and defibrination. Further purification was used to remove the GST tag. The antibody detects ArfGAP3 in cell lysates. A BLAST analysis was used to suggest cross-reactivity with human, monkey, and orangutan for ArfGAP3. Cross-reactivity with AfGAP3 from other sources have not been determined.
Suggested Dilutions	ELISA: 1:5,000 IF Microscopy: 1:100 IP: User optimized WB: 1:1,000 ArfGAP3 has been tested for use in Immunofluorescence and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 57 kDa in size by western blotting in the appropriate cell lysate or extract.

## Anti-ArfGAP3 Antibody (A06839) Images



Immunofluorescence Microscopy of Rabbit Anti-ArfGAP3 Antibody. Tissue: HeLa Whole Cell. Fixation: MeOH. Antigen retrieval: not required. Primary antibody: ArfGAP3 antibody at 1:100 for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ArfGAP3 is cytoplasmic. Staining: ArfGAP3 as green fluorescent signal.



Western Blot of Rabbit Anti-ArfGAP3 Antibody. Lane 1 (C): HeLa Whole Cell. Lane 2 (si): HeLa Whole Cell siRNA treated. Load: 10  $\mu$ g per lane. Primary antibody: ArfGAP3 antibody at 1:1000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 57 kDa for endogenous Arf-GAP3. Other band(s): non-specific band ~50kDa.

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### Anti-ArfGAP3 Antibody

For Research Use Only. Not for use in diagnostic procedures.