



## Biotinylated Anti-human Girdin Antibody

### ORDERING INFORMATION

**Catalog Number:** BAF5345

**Lot Number:** CDNR01

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS with BSA

**Storage:** -20° C

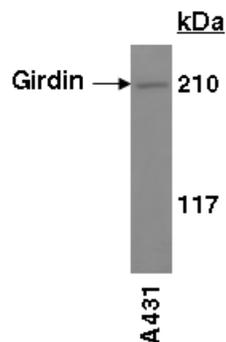
**Reconstitution:** sterile 0.1% BSA in TBS

**Specificity:** human Girdin

**Immunogen:** *E. coli*-derived rhGirdin (aa 1510 - 1824)

**Ig Type:** sheep IgG

**Application:** Western blot



### Detection of Girdin with BAF5345.

Cell lysates were resolved by SDS-PAGE, transferred to an Immobilon-P membrane and immunoblotted with 1.0 µg/mL biotinylated sheep anti-hGirdin.

### Background

Girdin (GIRDers of actIN filaments; also APE and GIV) is a member of the CCDC88 family of molecules. It is a cytosolic protein, ubiquitously expressed, and plays a key role in the motility of breast cancer cells. Human Girdin is 1871 amino acids (aa) in length. It contains two coiled-coil regions that mediate homodimerization (aa 196 - 425 and 458 - 1358), and one phosphoinositide-binding domain (aa 1390 - 1408). Normally, Girdin is membrane-associated via an interaction with phosphoinositides. Upon phosphorylation at Ser1417 by Akt, it relocates to lamellipodia where it crosslinks actin filaments. Multiple isoforms of Girdin have been detected.

### Preparation

Produced in sheep immunized with purified, *E. coli*-derived, recombinant human Girdin (rhGirdin; Asn1510 - Leu1824; Accession # Q3V6T2). Human Girdin specific IgG was purified by human Girdin affinity chromatography and then biotinylated.

### Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

### Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

### Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### Specificity

This antibody has been selected for use as a detection antibody in human Girdin Western blots.

### Application

**Western blot** - An antibody concentration of 1.0 µg/mL is recommended.

**Optimal dilutions should be determined by each laboratory for each application.**