

## UK Office

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diagnostic or therapeutic use.**

## EB06163 - Goat Anti-P114-RHO-GEF / ARHGEF18 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** ARHGEF18, Rho/Rac guanine nucleotide exchange factor (GEF) 18, P114-RHO-GEF, KIAA0521, MGC15913, Rho-specific guanine nucleotide exchange factor p114, P114-RhoGEF, Rho/Rac guanine nucleotide exchange factor 18

**Official Symbol:** ARHGEF18

**Accession Number(s):** NP\_056133.2; NP\_001124427.1

**Human GenelD(s):** [23370](#)

**Important Comments:** This antibody is expected to recognize both reported isoforms (NP\_056133.2; NP\_001124427.1).

### Immunogen

Peptide with sequence C-SAKEDASKEDVIF, from the C Terminus of the protein sequence according to NP\_056133.2; NP\_001124427.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:128000.

**Western blot:** Approx 140+90kDa band observed in lysates of cell line Daudi and Caco-2 (calculated MW of 114kDa according to NP\_056133.2 and 131kDa according to NP\_001124427.1). Recommended concentration: 1-3µg/ml. Primary incubation was 1 hour. This antibody has been successfully used in WB on Human, PMID: 36404918.

**Immunofluorescence:** This antibody has been successfully used in IF on Human, PMID: 36404918.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human

### Specific References

**This antibody has been successfully used in WB and IF on Human:**

Reiko Satow, Yudai Suzuki, Shinobu Asada, Sae Ota, Masashi Idogawa, Shiori Kubota, Noi Ikeo, Atsuko Yoneda, Kiyoko Fukami

Downregulation of protein kinase C gamma reduces epithelial property and enhances malignant phenotypes in colorectal cancer cells.

iScience. 2022 Nov 4;25(12):105501.

PMID: 36404918

**This antibody (previous batch) has been successfully used in WB on Medaka:**

Herder C, Swiercz JM, Müller C, Peravali R, Quiring R, Offermanns S, Wittbrodt J, Loosli F.

ArhGEF18 regulates RhoA-Rock2 signaling to maintain neuro-epithelial apico-basal

polarity and proliferation.

Development. 2013 Jul;140(13):2787-97.

PMID: 23698346

**This antibody (previous batch) has been successfully used in WB on Human:**

Terry SJ, Elbediwy A, Zihni C, Harris AR, Bailly M, Charras GT, Balda MS, Matter K.

Stimulation of Cortical Myosin Phosphorylation by p114RhoGEF Drives Cell Migration and Tumor Cell Invasion.

PLoS One. 2012;7(11):e50188.

PMID: 23185572

**This antibody (previous batch) has been successfully used in WB, IF and IP on Human:**

Terry SJ, Zihni C, Elbediwy A, Vitiello E, Leefa Chong San IV, Balda MS, Matter K.

Spatially restricted activation of RhoA signalling at epithelial junctions by p114RhoGEF drives junction formation and morphogenesis.

Nat Cell Biol. 2011 Feb;13(2):159-66.

PMID: 21258369

EB06163 (0.5µg/ml) staining of lysates of cell lines Daudi (A) and Caco-2 (B) (35µg protein in RIPA buffer).  
Detected by chemiluminescence.