

Goat Anti-GRAF / ARHGAP26 Antibody

Peptide-affinity purified goat antibody Catalog # AF1503a

## Specification

# Goat Anti-GRAF / ARHGAP26 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Concentration Isotype Calculated MW WB <u>O9UNA1</u> NP\_001129080, 23092, 71302 (mouse) Human Mouse, Rat, Dog Goat Polyclonal 100ug/200ul IgG 92235

## Goat Anti-GRAF / ARHGAP26 Antibody - Additional Information

Gene ID 23092

**Other Names** 

Rho GTPase-activating protein 26, GTPase regulator associated with focal adhesion kinase, Oligophrenin-1-like protein, Rho-type GTPase-activating protein 26, ARHGAP26, GRAF, KIAA0621, OPHN1L

### Format

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

Goat Anti-GRAF / ARHGAP26 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

# Goat Anti-GRAF / ARHGAP26 Antibody - Protein Information

Name ARHGAP26

Synonyms GRAF, KIAA0621, OPHN1L

### Function

GTPase-activating protein for RHOA and CDC42. Facilitates mitochondrial quality control by promoting Parkin-mediated recruitment of autophagosomes to damaged mitochondria



(PubMed:<a href="http://www.uniprot.org/citations/38081847" target="\_blank">38081847</a>). Negatively regulates the growth of human parainfluenza virus type 2 by inhibiting hPIV-2-mediated RHOA activation via interaction with two of its viral proteins P and V (PubMed:<a href="http://www.uniprot.org/citations/27512058" target=" blank">27512058</a>).

**Cellular Location** 

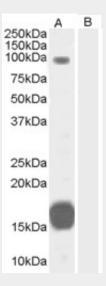
[Isoform 2]: Endosome membrane. Note=Colocalized with RAB8A, RAB8B and RAB10 on endosomal tubules.

## Goat Anti-GRAF / ARHGAP26 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

## Goat Anti-GRAF / ARHGAP26 Antibody - Images



AF1503a (0.3  $\mu$ g/ml) staining of Human Heart lysate (35  $\mu$ g protein in RIPA buffer) with (B) and without (A) blocking with the immunising peptide. Primary incubation was 1 hour. Detected by chemiluminescence.

## Goat Anti-GRAF / ARHGAP26 Antibody - Background

Interaction of a cell with the extracellular matrix triggers integrin cell surface receptors to begin signaling cascades that regulate the organization of the actin-cytoskeleton. One of the proteins involved in these cascades is focal adhesion kinase. The protein encoded by this gene is a GTPase activating protein that binds to focal adhesion kinase and mediates the activity of the GTP binding proteins RhoA and Cdc42. Defects in this gene are a cause of juvenile myelomonocytic leukemia (JMML). Two transcript variants encoding different isoforms have been found for this gene.

## Goat Anti-GRAF / ARHGAP26 Antibody - References



Decreased expression of GRAF1/OPHN-1-L in the X-linked alpha thalassemia mental retardation syndrome. Barresi V, et al. BMC Med Genomics, 2010 Jul 6. PMID 20602808.

[Quantification of GRAF gene expression in patients with acute myeloid leukemia using EvaGreen real time quantitative PCR] Qian Z, et al. Zhonghua Yi Xue Yi Chuan Xue Za Zhi, 2010 Jun. PMID 20533268.

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.

Aberrant methylation of GTPase regulator associated with the focal adhesion kinase (GRAF) promoter is an adverse prognostic factor in myelodysplastic syndrome. Qian J, et al. Eur J Haematol, 2010 Aug. PMID 20374274.

Dissecting the thermodynamics of GAP-RhoA interactions. Jelen F, et al. J Struct Biol, 2009 Jan. PMID 18929667.