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## GRAF1 Antibody

**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	92	Rabbit	#Q9UNA1	23092

### Product Usage Information

#### Application

Western Blotting

#### Dilution

1:1000

### 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.

### Specificity/Sensitivity

GRAF1 Antibody recognizes endogenous levels of total GRAF1 protein.

### Species predicted to react based on 100% sequence homology

Monkey, Bovine, Horse

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys261 of human GRAF1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

### Background

GTPase Regulator Associated with Focal Adhesion Kinase-1 (GRAF1), is a GTPase-activating protein for the small G proteins RhoA and Cdc42 (1). It is composed of an N-terminal BAR domain, a PH domain, a RhoGAP domain, a proline-rich domain, and a C-terminal SH3 domain. GRAF1 contributes to the clathrin-independent carriers/GPI-enriched early endosomal compartments (CLIC/GEEC) pathway, and was the first specific protein component of this endocytic pathway to be discovered (2). GRAF1 was identified as an important protein necessary for adeno-associated virus 2 infection (3). In addition, research studies have linked GRAF1 to mental retardation (4), skeletal muscle differentiation (5), and myeloid leukemia (6,7).

### Background References

- Hildebrand, J.D. et al. (1996) *Mol Cell Biol* 16, 3169-78.
- Lundmark, R. et al. (2008) *Curr Biol* 18, 1802-8.
- Nonnenmacher, M. and Weber, T. (2011) *Cell Host Microbe* 10, 563-76.
- Barresi, V. et al. (2010) *BMC Med Genomics* 3, 28.
- Doherty, J.T. et al. (2011) *J Biol Chem* 286, 25903-21.
- Qian, J. et al. (2011) *Leuk Res* 35, 783-6.
- Qian, Z. et al. (2010) *J Exp Clin Cancer Res* 29, 111.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

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

### Applications Key

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat

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