GRAF1 Antibody



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Applications: Reactivity: Sensitivity: MW (kDa): Source: **UniProt ID:** Entrez-Gene Id: WR HMREndogenous 92 Rabbit #Q9UNA1 23092 **Product Usage** Application Dilution Information Western Blotting 1:1000

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at -**Storage** 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 clathrinindependent 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

- 1. Hildebrand, J.D. et al. (1996) Mol Cell Biol 16, 3169-78.
- 2. Lundmark, R. et al. (2008) Curr Biol 18, 1802-8.
- 3. Nonnenmacher, M. and Weber, T. (2011) Cell Host Microbe 10, 563-76.
- 4. Barresi, V. et al. (2010) BMC Med Genomics 3, 28.
- 5. Doherty, J.T. et al. (2011) J Biol Chem 286, 25903-21.
- 6. Oian, J. et al. (2011) Leuk Res 35, 783-6.
- 7. 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).

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer**

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

X: Xenopus Z: zebrafish B: bovine Dq: dog Pq: piq Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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