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**Product Name: C3G (phospho Tyr504) Rabbit Polyclonal Antibody****Catalog #: APRab04343**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ICC/IF,ELISA
<b>Reactivity</b>	Human,Rat,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phosphorylated
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
<b>Molecular Weight</b>	120kDa

**Antigen Information**

<b>Gene Name</b>	RAPGEF1
<b>Alternative Names</b>	RAPGEF1; GRF2; Rap guanine nucleotide exchange factor 1; CRK SH3-binding GNRP; Guanine nucleotide-releasing factor 2; Protein C3G
<b>Gene ID</b>	2889.0
<b>SwissProt ID</b>	Q13905
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human RapGEF1 around the phosphorylation site of Tyr504. AA range:470-519

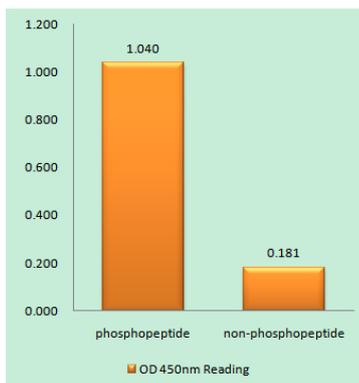
**Background**

This gene encodes a human guanine nucleotide exchange factor. It transduces signals from CRK by binding the SH3 domain of CRK, and activating several members of the Ras family of GTPases. This signaling cascade that may be involved in apoptosis, integrin-mediated signal transduction, and cell transformation. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some variants has not been determined. [provided by RefSeq, Jul 2008],function:Guanine nucleotide-releasing protein that binds to SH3 domain of CRK and GRB2/ASH. Transduces signals from CRK to activate RAS.,similarity:Contains 1 N-terminal Ras-GEF domain.,similarity:Contains 1 Ras-GEF domain.,subunit:Interacts with CRK via its SH3-binding sites.,tissue specificity:Ubiquitously expressed in adult and fetus. Expression is high in adult skeletal muscle and placenta and in fetal brain and heart. Low levels of expression in adult and fetal liver.,

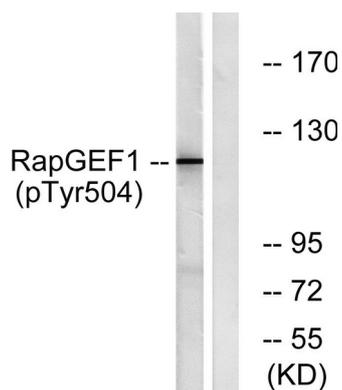
## Research Area

Regulation of Actin Dynamics; AMPK

## Image Data



Enzyme-Linked Immunosorbent Assay ( Phospho-ELISA ) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using RapGEF1 (Phospho-Tyr504) Antibody



Western blot analysis of lysates from HepG2 cells treated with Na<sub>3</sub>VO<sub>4</sub> 0.3nM 40 minutes, using RapGEF1 (Phospho-Tyr504) Antibody. The lane on the right is blocked with the phospho peptide.