



C3G (phospho Tyr504) Polyclonal Antibody

Catalog No	YP-Ab-16112
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	RAPGEF1
Immunogen	The antiserum was produced against synthesized peptide derived from human RapGEF1 around the phosphorylation site of Tyr504. AA range:470-519
Specificity	Phospho-C3G (Y504) Polyclonal Antibody detects endogenous levels of C3G protein only when phosphorylated at Y504.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	C3G;C3G protein;CRK SH3 binding GNRP;CRK SH3-binding GNRP; DKFZp781P1719;GRF 2;GRF2;Guanine nucleotide releasing factor 2 (specific for crk proto oncogene);Guanine nucleotide releasing factor 2;Guanine nucleotide-releasing factor 2;OTTHUMP64558;Protein C3G;Rap guanine nucleotide exchange factor (GEF) 1;Rap guanine nucleotide exchange factor 1; RAPGEF 1;RAPGEF1;RPGF1_HUMAN
Observed Band	120kD
Calculated Molecular Weight	120kD
Cell Pathway	Early endosome .
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.
Function	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.,

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],

matters needing attention

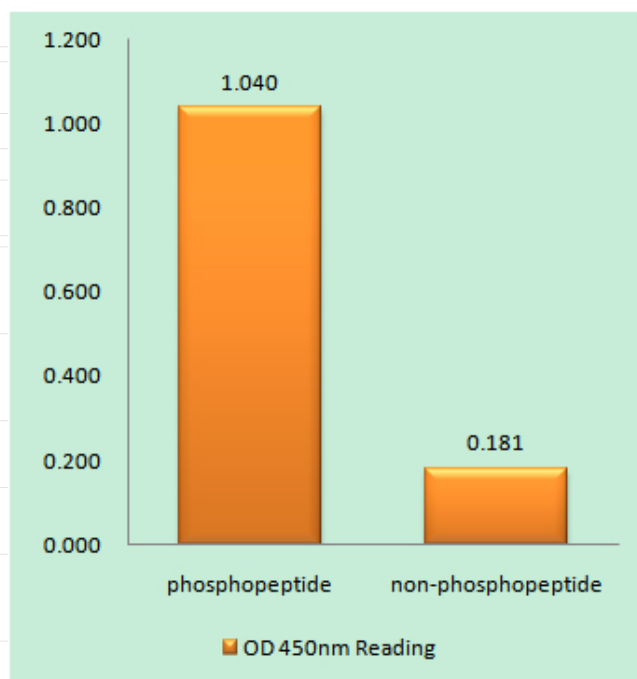
Avoid repeated freezing and thawing!

Usage suggestions

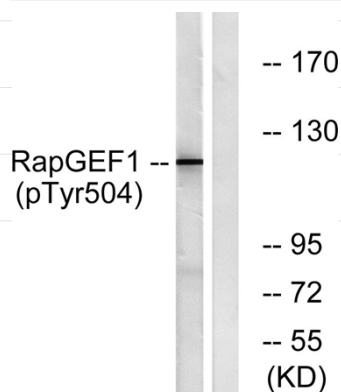
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



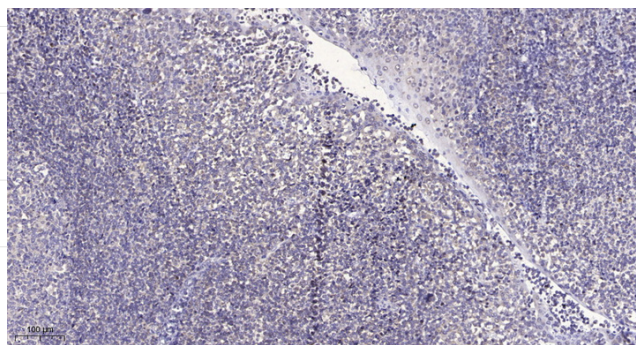
Products Images



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 Na₃VO₄ 0.3nM 40', using RapGEF1 (Phospho-Tyr504) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).