

Anti-RPGF2 RAPGEF2 Antibody

Catalog Number: A04621

About RAPGEF2

Acts as component of the THO subcomplex of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and which specifically associates with spliced mRNA and not with unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NFX1 pathway. The TREX complex is essential for the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production. THOC5 in conjunction with ALYREF/THOC4 functions in NXF1-NXT1 mediated nuclear export of HSP70 mRNA; both proteins enhance the RNA binding activity of NXF1 and are required for NXF1 localization to the nuclear rim. Involved in transcription elongation and genome stability. Involved in alternative polyadenylation site choice by recruiting CPSF6 to 5' region of target genes; probably mediates association of the TREX and CFIm complexes. Regulates the expression of myeloid transcription factors CEBPA, CEBPB and GAB2 by enhancing the levels of phosphatidylinositol 3,4,5-trisphosphate. May be involved in the differentiation of granulocytes and adipocytes. Essential for hematopoietic primitive cell survival and plays an integral role in monocytic development.

Xie Y.G., Hum. Mol. Genet. 2:1361-1368(1993).

Nagase T., DNA Res. 6:63-70(1999).

Collins J.E., Genome Biol. 5:RESEARCH84.1-RESEARCH84.11(2004)

Overview

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| Product Name | Anti-RPGF2 RAPGEF2 Antibody |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-RPGF2 RAPGEF2 Antibody catalog # A04621. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. |
| Application | ELISA, WB |
| Clonality | Polyclonal |
| Formulation | Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide. |
| Storage Instructions | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | Q9Y4G8 |

Technical Details

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| Immunogen | Synthesized peptide derived from human RPGF2 protein. |
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| Predicted Reactive Species | Boar, Bovine, Canine, Golden Hamster |
| Isotype | IgG |
| Form | Liquid |
| Concentration | 1 mg/ml |
| Purification | RPGF2 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Suggested Dilutions | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB 1:500-2000 ELISA 1:5000-20000 |

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