

Product Name: PHAX Rabbit Polyclonal Antibody

Catalog #: APRab16057

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

ApplicationWB,IHC,ELISAReactivityHuman,Rat,MouseConjugationUnconjugated

Modification Unmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000

Molecular Weight 48kDa

Antigen Information

Gene Name PHAX

PHAX; RNUXA; Phosphorylated adapter RNA export protein; RNA U small nuclear RNA

Alternative Names export adapter protein

 Gene ID
 51808.0

 SwissProt ID
 Q9H814

The antiserum was produced against synthesized peptide derived from human RNUXA. AA Immunogen

range:141-190

Background



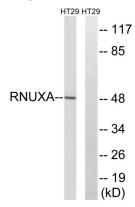
function: A phosphoprotein adapter involved in the XPO1-mediated U snRNA export from the nucleus. Bridge components required for U snRNA export, the cap binding complex (CBC)-bound snRNA on the one hand and the GTPase Ran in its active GTP-bound form together with the export receptor XPO1 on the other. Its phosphorylation in the nucleus is required for U snRNA export complex assembly and export, while its dephosphorylation in the cytoplasm causes export complex disassembly. It is recycled back to the nucleus via the importin alpha/beta heterodimeric import receptor. The directionality of nuclear export is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Its compartmentalized phosphorylation cycle may also contribute to the directionality of export. Binds strongly to m7G-capped U1 and U5 small nuclear RNAs (snRNAs) in a sequence-unspecific manner and phosphorylation-independent manner (By similarity). Plays also a role in the biogenesis of U3 small nucleolar RNA (snoRNA). Involved in the U3 snoRNA transport from nucleoplasm to Cajal bodies. Binds strongly to m7G-capped U3, U8 and U13 precursor snoRNAs and weakly to trimethylated (TMG)-capped U3, U8 and U13 snoRNAs. Binds also to telomerase RNA.,PTM:Phosphorylated in the nucleus. Dephosphorylated in the cytoplasm (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the PHAX family.,subcellular location:Located in the nucleoplasm and Cajal bodies. Shuttles between the nucleus and the cytoplasm. Shuttles between the nucleoplasm and Cajal bodies., subunit: Found in a U snRNA export complex with PHAX/RNUXA, NCBP1, NCBP2, RAN, XPO1 and m7G-capped RNA. Part of a precomplex with PHAX/RNUXA, NCBP1, NCBP2 and m7G-capped RNA. Interacts with NCBP1 (By similarity). Found in a complex with snoRNA.,function:A phosphoprotein adapter involved in the XPO1-mediated U snRNA export from the nucleus. Bridge components required for U snRNA export, the cap binding complex (CBC)-bound snRNA on the one hand and the GTPase Ran in its active GTP-bound form together with the export receptor XPO1 on the other. Its phosphorylation in the nucleus is required for U snRNA export complex assembly and export, while its dephosphorylation in the cytoplasm causes export complex disassembly. It is recycled back to the nucleus via the importin alpha/beta heterodimeric import receptor. The directionality of nuclear export is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Its compartmentalized phosphorylation cycle may also contribute to the directionality of export. Binds strongly to m7G-capped U1 and U5 small nuclear RNAs (snRNAs) in a sequence-unspecific manner and phosphorylation-independent manner (By similarity). Plays also a role in the biogenesis of U3 small nucleolar RNA (snoRNA). Involved in the U3 snoRNA transport from nucleoplasm to Cajal bodies. Binds strongly to m7Gcapped U3, U8 and U13 precursor snoRNAs and weakly to trimethylated (TMG)-capped U3, U8 and U13 snoRNAs. Binds also to telomerase RNA.,PTM:Phosphorylated in the nucleus. Dephosphorylated in the cytoplasm (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR., PTM: Phosphorylated upon DNA damage, probably by ATM or ATR., similarity: Belongs to the PHAX family,,subcellular location:Located in the nucleoplasm and Cajal bodies. Shuttles between the nucleus and the cytoplasm. Shuttles between the nucleoplasm and Cajal bodies, subunit: Found in a U snRNA export complex with PHAX/RNUXA, NCBP1, NCBP2, RAN, XPO1 and m7G-capped RNA. Part of a precomplex with PHAX/RNUXA, NCBP1, NCBP2 and m7G-capped RNA. Interacts with NCBP1 (By similarity). Found in a complex with snoRNA.,

Research Area

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Image Data



Western blot analysis of lysates from HT-29 cells, using RNUXA Antibody. The lane on the right is blocked with the synthesized peptide.