

PHAX Antibody - middle region Rabbit Polyclonal Antibody Catalog # Al15236

Specification

PHAX Antibody - middle region - Product Information

Application Primary Accession Other Accession Reactivity

Predicted

Host Clonality Calculated MW WB <u>Q9H814</u> <u>NM_032177</u>, <u>NP_115553</u> Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog Rabbit Polyclonal 44kDa KDa

PHAX Antibody - middle region - Additional Information

Gene ID 51808

Alias Symbol RNUXA Other Names Phosphorylated adapter RNA export protein, RNA U small nuclear RNA export adapter protein, PHAX, RNUXA

Format Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-PHAX antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

PHAX Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

PHAX Antibody - middle region - Protein Information

Name PHAX

Synonyms RNUXA

Function

A phosphoprotein adapter involved in the XPO1-mediated U snRNA export from the nucleus (PubMed:39011894). 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). Also plays 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. Also binds to telomerase RNA.

Cellular Location

Nucleus, nucleoplasm. Nucleus, Cajal body. Cytoplasm. Note=Located in the nucleoplasm and Cajal bodies. Shuttles between the nucleus and the cytoplasm. Shuttles between the nucleoplasm and Cajal bodies.

PHAX Antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

PHAX Antibody - middle region - Images



Host: Rabbit Target Name: PHAX Sample Tissue: Fetal Liver lysates Antibody Dilution: 1.0µg/ml

PHAX Antibody - middle region - References

Ota T., et al.Nat. Genet. 36:40-45(2004). Ebert L., et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases. Boulon S., et al.Mol. Cell 16:777-787(2004). Segref A., et al.RNA 7:351-360(2001).



Watkins N.J., et al. Mol. Cell 16:789-798(2004).