

Anti-PHAX Antibody

Catalog # AP53976

Product Information

Application	WB, ICC
Primary Accession	Q9H814
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44403

Additional Information

Gene ID	51808
Other Names	RNUXA; Phosphorylated adapter RNA export protein; RNA U small nuclear RNA export adapter protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PHAX. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 ICC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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.

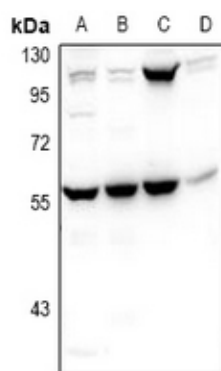
Cellular Location

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.

Background

Rabbit polyclonal antibody to PHAX

Images



Western blot analysis of PHAX expression in LO2 (A), MCF7 (B), SP20 (C), H9C2 (D) whole cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.