Anti-PHAX Polyclonal Antibody

Cat: K110317P

Summary:

【**Product name**】: Anti-PHAXantibody

【**Source**】: Rabbit

【**Isotype**】: IgG

【**Species reactivity**】: Human

【**Swiss Prot**】: Q9H814

【**Gene ID**】: 51808

【**Calculated**】: MW:44kDa

【**Observed**】: MW:44kDa

【**Purification**】: Affinity purification

【**Tested applications**】: WB IHC

【**Recommended dilution**】: WB 1:1000-3000. IHC 1:50-200.

【**WB Positive sample**】: T47d

【**IHC Positive sample**】: Human breast cancer

【**Subcellular location**】: Nucleus Cytoplasm

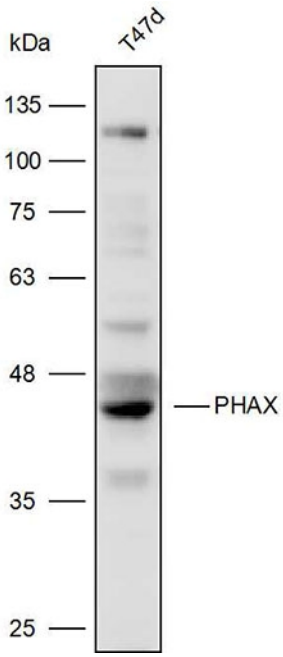
【**Immunogen**】: A synthetic peptide of PHAX

【**Storage**】: Shipped at 4°C. Upon delivery aliquot and store at -20°C

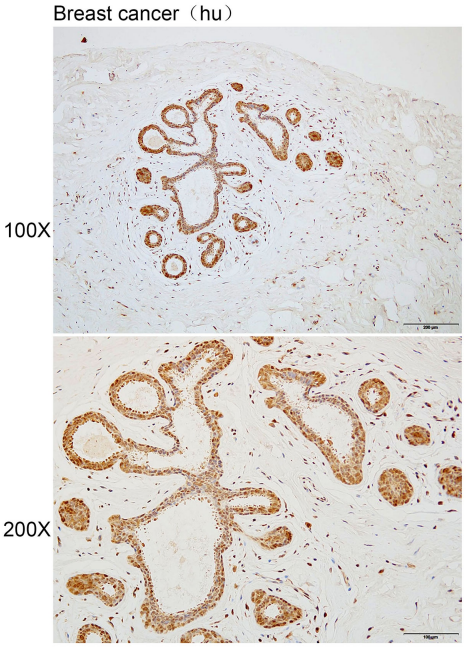
Background:

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.

Verified picture



Western blot analysis with PHAX antibody diluted at 1:2000;Lane:T47d



Immunohistochemistry of paraffin-embedded Human breast cancer using PHAX antibody diluted at 1:100

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