

## Product datasheet for **TA366542S**

### PHAX Rabbit Polyclonal Antibody

#### Product data:

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| Product Type:         | Primary Antibodies                                                                         |
| Applications:         | IHC                                                                                        |
| Recommended Dilution: | IHC: 100-300<br>Positive control: Human thyroid cancer<br>Predicted cell location: Nucleus |
| Reactivity:           | Human, Mouse, Rat                                                                          |
| Host:                 | Rabbit                                                                                     |
| Isotype:              | IgG                                                                                        |
| Clonality:            | Polyclonal                                                                                 |
| Immunogen:            | Fusion protein of human PHAX                                                               |
| Formulation:          | pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol                                           |
| Purification:         | Antigen affinity purification                                                              |
| Conjugation:          | Unconjugated                                                                               |
| Storage:              | Store at -20°C.                                                                            |
| Stability:            | 1 year                                                                                     |
| Gene Name:            | phosphorylated adaptor for RNA export                                                      |
| Database Link:        | <a href="#">Entrez Gene 51808 Human Q9H814</a>                                             |



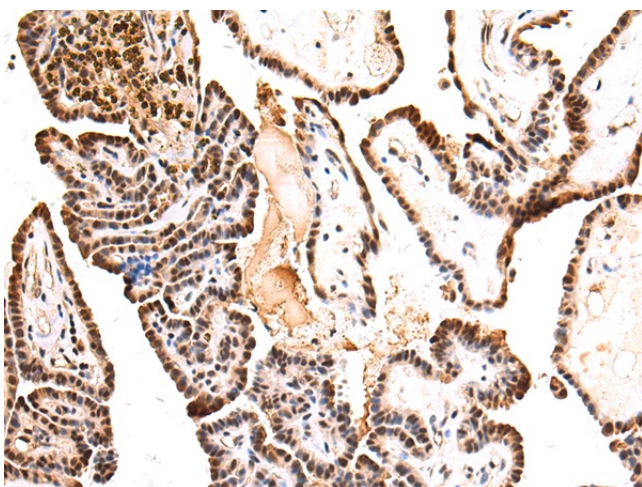
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**Background:**

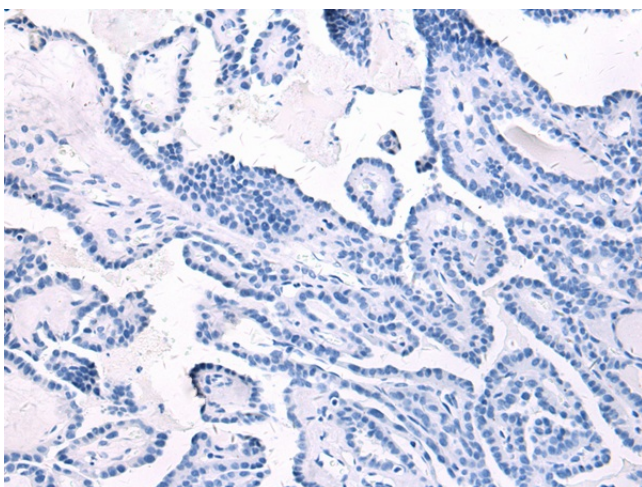
A phosphoprotein adapter involved in the XPO1-mediated U snRNA export from the nucleus. Bridge components required for U snRNA export, the cap binding complex (CBC)-bound snRNA on the one hand and the GTPase Ran in its active GTP-bound form together with the export receptor XPO1 on the other. Its phosphorylation 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.

**Synonyms:**

FLJ13193; RNUXA

**Product images:**


Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA366542] (PHAX Antibody) at dilution 1/80 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA366542] (PHAX Antibody) at dilution 1/80, treated with fusion protein. (Original magnification: ×200)