

### Product Information

**Size:**

50ul

**Reactivity:**

Human, Mouse

**Source:**

Rabbit

**Isotype:**

IgG

**Applications:**

ELISA, IHC

**Recommended dilutions:**

ELISA:1:1000-1:2000, IHC:1:25-1:100

**Protein Background:**

As part of the heterotrimeric replication protein A complex (RPA/RP-A), binds and stabilizes single-stranded DNA intermediates, that form during DNA replication or upon DNA stress. It prevents their reannealing and in parallel, recruits and activates different proteins and complexes involved in DNA metabolism. Thereby, it plays an essential role both in DNA replication and the cellular response to DNA damage. In the cellular response to DNA damage the RPA complex controls DNA repair and DNA damage checkpoint activation. It is required for the recruitment of the DNA double-strand break repair factors RAD52 and RAD51 to chromatin in response to DNA damage. Also recruits to sites of DNA damage proteins like XPA and XPG that are involved in nucleotide excision repair and is required for this mechanism of DNA repair. Plays also a role in base excision repair (BER) probably through interaction with UNG. Through RFD3 may activate CHEK1 and play a role in replication checkpoint control.

**Gene ID:**

ARPC4

**Uniprot**

P59998

**Synonyms:**

actin related protein 2/3 complex, subunit 4, 20kDa

**Immunogen:**

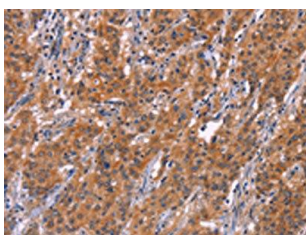
Synthetic peptide of human ARPC4.

**Storage:**

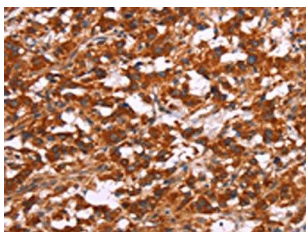
-20°C; C, pH7.4 PBS, 0.05% NaN<sub>3</sub>, 40% Glycerol

## Product Images

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The image on the left is immunohistochemistry of paraffin-embedded Human gastric cancer tissue using PACO18584(ARPC4 Antibody) at dilution 1/15, on the right is treated with synthetic peptide. (Original magnification: x—200).



The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using PACO18584(ARPC4 Antibody) at dilution 1/15, on the right is treated with synthetic peptide. (Original magnification: x—200).