

# NEK9 Polyclonal antibody

Catalog Number: 51057-2-AP

## Basic Information

**Catalog Number:**

51057-2-AP

**Size:**

200 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1689

**GenBank Accession Number:**

BC009336

**GeneID (NCBI):**

91754

**UNIPROT ID:**

Q8TD19

**Full Name:**

NIMA (never in mitosis gene a)-related kinase 9

**Calculated MW:**

107 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

IF/ICC 1:20-1:200

## Applications

**Tested Applications:**

IF/ICC, ELISA

**Species Specificity:**

human, monkey

**Positive Controls:**

IF/ICC : COS-7 cells,

## Background Information

NEK9 is also named as KIAA1995, NEK8, NERCC and belongs to the NEK Ser/Thr protein kinase family. It is independently identified as a Nek6- and Ran GTPase- binding protein under a different name, Nercc1 (PMID:14660563). Nek9, together with the highly similar Nek6 and Nek7, form a signaling module that is activated during mitosis and involved in the regulation of the mitotic spindle. Confocal microscopy identified that Nek9 was localized to the spindle poles at the metaphase stages and associated with the midbody at anaphase or telophase stage in both meiotic oocytes and the first mitotic embryos (PMID: 23159858). The endogenous Nek9 (with predicted molecular mass of 120 kDa) has an apparent molecular mass of 600 kDa, also compatible with a tetramer (PMID:21454704).

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

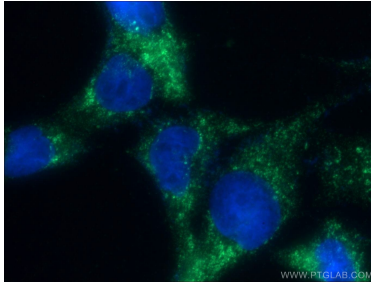
**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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## Selected Validation Data



Immunofluorescent analysis of (10% Formaldehyde) fixed COS-7 cells using 51057-2-AP (NEK9 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).