

For Research Use Only

# CoraLite®594-conjugated NEK2 Monoclonal antibody

Catalog Number: CL594-66632



## Basic Information

### Catalog Number:

CL594-66632

### Size:

100ul , Concentration: 1000 ug/ml by Nanodrop;

### Source:

Mouse

### Isotype:

IgG1

### Immunogen Catalog Number:

AG21476

### GenBank Accession Number:

BC043502

### GeneID (NCBI):

4751

### UNIPROT ID:

P51955

### Full Name:

NIMA (never in mitosis gene a)-related kinase 2

### Calculated MW:

52 kDa

### Observed MW:

48 kDa

### Purification Method:

Protein G purification

### CloneNo.:

3D7B4

### Excitation/Emission maxima wavelengths:

588 nm / 604 nm

## Applications

### Tested Applications:

FC (Intra)

### Species Specificity:

human, mouse, rat

## Background Information

NEK2, also named as HSPK 21, belongs to the NEK family. NEK2 is well recognized as a multifunctional protein with roles in cell cycle regulation, such as centrosome duplication and separation, microtubule stabilization, kinetochore attachment and spindle assembly checkpoint. NEK2 is highly expressed in several cancer types, such as cholangiocarcinoma, breast, colorectal, and pancreatic cancer. NEK2 in mammals has three splice variants: NEK2A, NEK2B, and NEK2C. NEK2A is evenly distributed within the nuclei and cytoplasm, while NEK2B is mainly distributed in the cytoplasm, and NEK2C is mainly distributed in the nuclear region. As NEK2A, NEK2B and NEK2C exhibit overlapping or identical substrate usage, these variants are collectively referred to here as NEK2 (PMID:31092416).

## Storage

### Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

### Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

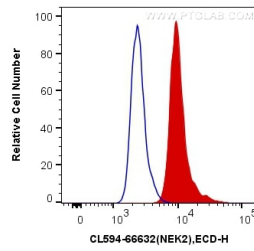
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## Selected Validation Data



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human NEK2 (CL594-66632, Clone:3D7B4) (red), or 0.4 ug Mouse IgG1 Isotype Control (CL594-66360, Clone: T1F8D3F10) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).