

For Research Use Only

CoraLite®594-conjugated NEK2 Monoclonal antibody



Catalog Number:CL594-66632

Basic Information

Catalog Number: CL594-66632	GenBank Accession Number: BC043502	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 4751	CloneNo.: 3D7B4
Source: Mouse	Full Name: NIMA (never in mitosis gene a)- related kinase 2	Excitation/Emission maxima wavelengths: 593 nm / 614 nm
Isotype: IgG1	Calculated MW: 52 kDa	
Immunogen Catalog Number: AG21476	Observed MW: 48 kDa	

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.

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

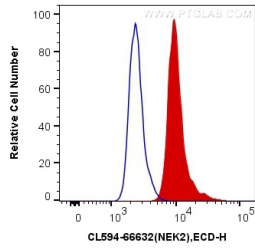
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ 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).