Human NCK1 Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 714506

Catalog Number: FAB7008T

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NCK1 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2A} Clone # 714506
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human NCK1 Met1-Ser377 Accession # P16333
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

NCK1 (Non-catalytic region of tyrosine kinase 1; also Sh2/SH3 adaptor protein NCK-α) is a 46-48 kDa member of the Nck family of adaptor proteins. NCK1 is ubiquitously expressed and may be found in both cytoplasm and nucleus. In the cytoplasm, it connects tyrosine kinases to actin reorganization which, in T cells, involves SLP-76 and VAV1. Upon DNA damage, NCK1 binds SOCS7 and is translocated into the nucleus where it participates in p53 phosphorylation and cell cycle arrest. Human NCK1 is 377 amino acids (aa) in length. It contains three N-terminal SH3 domains (aa 2-252) that mediate binding to Pro-rich regions of cytoplasmic proteins, and a C-terminal SH2 domain (aa 282-376) that binds to phosphorylated proteins or receptors. There are at least three utilized Ser, and one utilized Tyr phosphorylation sites. There are also three potential splice variants. One shows a 12 aa substitution for aa 1-76, a second possesses an 11 aa substitution for aa 77-377, and a third contains a 37 aa substitution for aa 134-377. Full-length NCK1 shares 99% aa identity with mouse NCK1.

MAB7008 detects mouse and rat NCK1 in Western Blots. Cross-reactivity with mouse and rat samples in immunocytochemistry has not been tested.

PRODUCT SPECIFIC NOTICES

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