

DESCRIPTION

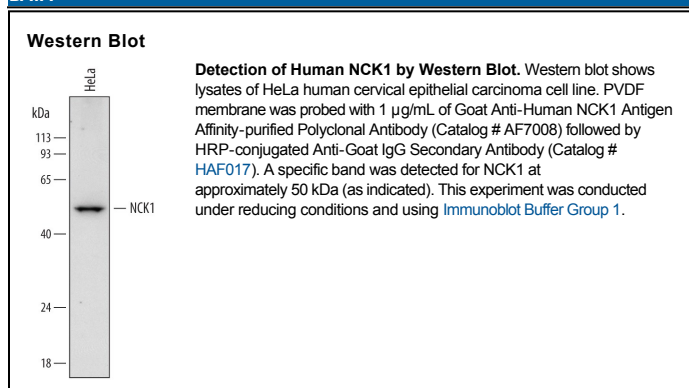
Species Reactivity	Human
Specificity	Detects human NCK1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human NCK1 Ala2-Ser377 Accession # P16333
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.