

Product datasheet

Anti-Nck antibody [Y531] ab32120

Recombinant **RabMAb**

★★★★☆ 1 Abreviews 5 References 3 Images

Overview

Product name	Anti-Nck antibody [Y531]
Description	Rabbit monoclonal [Y531] to Nck
Host species	Rabbit
Specificity	ab32120 recognises Nck.
Tested applications	Suitable for: WB, IHC-P, ICC, Flow Cyt, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	A synthetic peptide corresponding to residues close to the SH2 domain of human Nck
Positive control	Hela cell lysate and human breast carcinoma
General notes	

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMab[®] patents](#).

This product is a [recombinant rabbit monoclonal antibody](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol, 0.05% BSA
Purity	IgG fraction
Clonality	Monoclonal
Clone number	Y531
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab32120** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Detects a band of approximately 47 kDa.
IHC-P		Use at an assay dependent concentration.
ICC		1/250 - 1/500.
Flow Cyt		1/1000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/50.

Target

Function

Adapter protein which associates with tyrosine-phosphorylated growth factor receptors or their cellular substrates. Maintains low levels of EIF2S1 phosphorylation by promoting its dephosphorylation by PP1. Plays a role in the DNA damage response, not in the detection of the damage by ATM/ATR, but for efficient activation of downstream effectors, such as that of CHEK2.

Sequence similarities

Contains 1 SH2 domain.
Contains 3 SH3 domains.

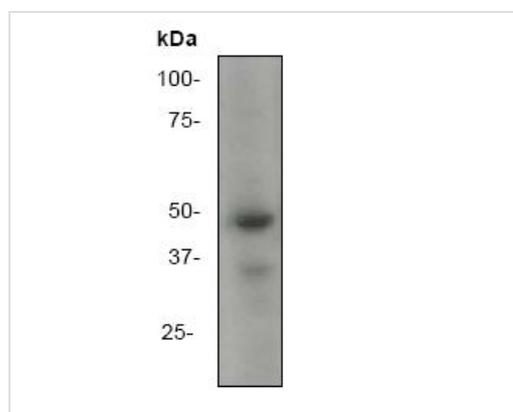
Post-translational modifications

Phosphorylated on Ser and Tyr residues.

Cellular localization

Cytoplasm. Endoplasmic reticulum. Nucleus. Mostly cytoplasmic, but shuttles between the cytoplasm and the nucleus. Import into the nucleus requires the interaction with SOCS7. Predominantly nuclear following genotoxic stresses, such as UV irradiation, hydroxyurea or mitomycin C treatments.

Images



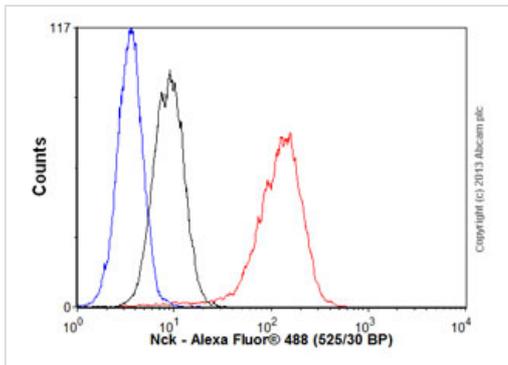
Western blot - Anti-Nck antibody [Y531] (ab32120)

Anti-Nck antibody [Y531] (ab32120) at 1/10000 dilution + HeLa cell lysate

Observed band size: 47 kDa

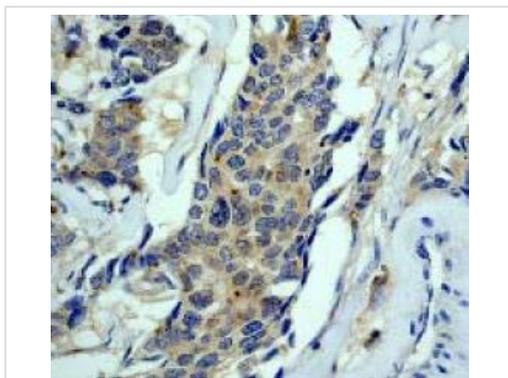
[why is the actual band size different from the predicted?](#)

Additional bands at: 35 kDa. We are unsure as to the identity of these extra bands.



Flow Cytometry - Anti-Nck antibody [Y531]
(ab32120)

Overlay histogram showing Jurkat cells stained with ab32120 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab32120, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) (ab150077) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1 µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in Jurkat cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nck antibody [Y531]
(ab32120)

ab32120 (1/100), staining human breast carcinoma by immunohistochemistry, Paraffin embedded tissue.

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