**Product datasheet**

**Anti-Nck antibody [Y531] ab32120**

- **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**
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.

Target

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.
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) (0.1μg/1x10^6 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.

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

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.
Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors