Datasheet for ABIN7599569

anti-N4BP1 antibody (AA 1-885)

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Overview

Quantity:	100 µg
Target:	N4BP1
Binding Specificity:	AA 1-885
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This N4BP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-N4BP1 Antibody Picoband®
Immunogen:	E.coli-derived human N4BP1 recombinant protein (Position: M1-K885).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-N4BP1 Antibody Picoband® (ABIN7599569). Tested in ELISA, IF, ICC, WB, Flow Cytometry applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	N4BP1
Alternative Name:	N4BP1 (N4BP1 Products)
Background:	Synonyms: Histone H3/a, Histone H3/b, Histone H3/c, Histone H3/d, Histone H3/f, Histone H3/h, Histone H3/I, Histone H3/j, Histone H3/k, Histone H3/l, HIST1H3A, HIST1H3B, HIST1H3C, HIST1H3D, HIST1H3E, HIST1H3F, HIST1H3G, HIST1H3H, HIST1H3I, HIST1H3J, H3FJ Tissue Specificity: Expressed in fetal brain, fetal lung, fetal liver, heart, brain, placenta, lung, liver, muscle, kidney and pancreas. Background: Nedd4-binding partner-1 (N4BP1) has been identified as a protein interactor and a substrate of the homologous to E6AP C terminus (HECT) domain-containing E3 ubiquitin-protein ligase (E3), Nedd4. Here, we describe a previously unrecognized functional interaction between N4BP1 and Itch, a Nedd4 structurally related E3, which contains four WW domains, conferring substrate-binding activity. We show that N4BP1 association with the second WW domain (WW2) of Itch interferes with E3 binding to its substrates. In particular, we found that N4BP1 and p73α, a target of Itch-mediated ubiquitin/proteasome proteolysis, share the same binding site. By competing with p73α for binding to the WW2 domain, N4BP1 reduces the ability of Itch to recruit and ubiquitylate p73α and inhibits Itch autoubiquitylation activity both in in vitro and in vivo ubiquitylation assays.
Molecular Weight:	110 kDa
Gene ID:	9683
UniProt:	O75113

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Gitlin, A. D., Heger, K., Schubert, A. F., Reja, R., Yan, D., Pham, V. C., Suto, E., Zhang, J., Kwon, Y. C., Freund, E. C., Kang, J., Pham, A., and 13 others. Integration of innate immune signalling by caspase-8 cleavage of N4BP1. Nature 587: 275-280, 2020. 2. Gross, M. B. Personal Communication. Baltimore, Md. 12/23/2020. 3. Murillas, R., Simms, K. S., Hatakeyama, S., Weissman, A. M., Kuehn, M. R. Identification of developmentally expressed proteins that functionally interact with Nedd4 ubiquitin ligase. J. Biol. Chem. 277: 2897-2907, 2002.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.