

Anti-NPL4/NPLOC4 Antibody Picoband®

Catalog Number: A08476-1

About NPLOC4

Nuclear protein localization protein 4 homolog is a protein that in humans is encoded by the NPLOC4 gene. Nuclear protein localization protein 4 (NPL4, NPLOC4) was originally identified as a yeast nuclear transport protein that was later recognized as a critical component of the endoplasmic reticulum-associated degradation (ERAD) pathway. Mammalian NPL4 protein has an amino-terminal ubiquitin-like domain containing a p97 binding site, and a conserved carboxy-terminal zinc finger (NZF) motif responsible for binding ubiquitinated target proteins. NPL4 binds ubiquitin fusion degradation protein 1 (UFD1) to form a heterodimer that associates with the p97 AAA-ATPase, creating a protein complex that mediates delivery of ubiquitinated ER proteins to the proteasome.

Overview

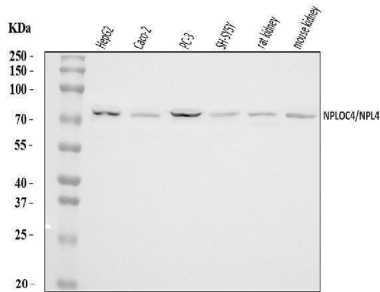
Product Name	Anti-NPL4/NPLOC4 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NPL4/NPLOC4 Antibody Picoband® catalog # A08476-1. Tested in ELISA, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody 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.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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.
Host	Rabbit
Uniprot ID	Q8TAT6

Technical Details

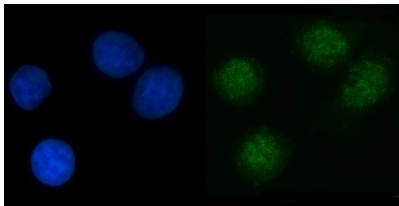
Immunogen	E.coli-derived human NPL4/NPLOC4 recombinant protein (Position: M1-N495).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human ELISA, 0.1-0.5 ug/ml, -

Anti-NPL4/NPLOC4 Antibody Picoband® (A08476-1) Images



Western blot analysis of NPL4/NPLOC4 using anti-NPL4/NPLOC4 antibody (A08476-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: human Caco-2 whole cell lysates, Lane 3: human PC-3 whole cell lysates, Lane 4: human SH-SY5Y whole cell lysates, Lane 5: rat kidney tissue lysates, Lane 6: mouse kidney tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NPL4/NPLOC4 antigen affinity purified polyclonal antibody (Catalog # A08476-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NPL4/NPLOC4 at approximately 72 kDa. The expected band size for NPL4/NPLOC4 is at 68 kDa.



IF analysis of NPL4/NPLOC4 using anti-NPL4/NPLOC4 antibody (A08476-1). NPL4/NPLOC4 was detected in an immunocytochemical section of Caco-2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-NPL4/NPLOC4 Antibody (A08476-1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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Anti-NPL4/NPLOC4 Antibody

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