

Anti-Nectin 2/NECTIN2 Antibody Picoband®

Catalog Number: A08081-2

About NECTIN2

Nectin-2 is a 60 or 65 kDa type I TM glycoprotein that is found on a variety of cell types. It is mapped to 19q13.32. This gene encodes a single-pass type I membrane glycoprotein with two Ig-like C2-type domains and an Ig-like V-type domain. This protein is one of the plasma membrane components of adherens junctions. It also serves as an entry for certain mutant strains of herpes simplex virus and pseudorabies virus, and it is involved in cell to cell spreading of these viruses. Variations in this gene have been associated with differences in the severity of multiple sclerosis. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Overview

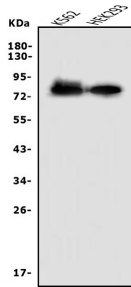
Product Name	Anti-Nectin 2/NECTIN2 Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-Nectin 2/NECTIN2 Antibody Picoband® catalog # A08081-2. Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this 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, Flow Cytometry, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q92692

Technical Details

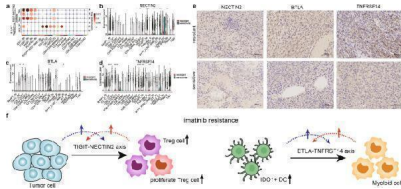
Immunogen	E.coli-derived human Nectin 2/NECTIN2 recombinant protein (Position: Q32-E348).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
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, 0.25-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat Immunocytochemistry/Immunofluorescence, 2ug/ml, Human Flow Cytometry (Fixed), 1-3ug/1x10 ⁶ cells, Human ELISA, 0.1-0.5ug/ml, -

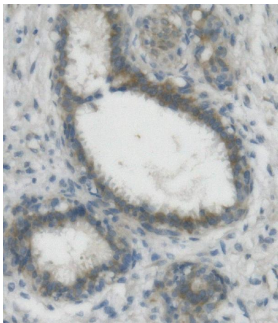
Anti-Nectin 2/NECTIN2 Antibody Picoband® (A08081-2) Images



Western blot analysis of Nectin 2/NECTIN2 using anti-Nectin 2/NECTIN2 antibody (A08081-2). 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 50ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human HEK293 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-Nectin 2/NECTIN2 antigen affinity purified polyclonal antibody (Catalog # A08081-2) 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 1:10000 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 Nectin 2/NECTIN2 at approximately 70-80kD. The expected band size for Nectin 2/NECTIN2 is at 58kD.

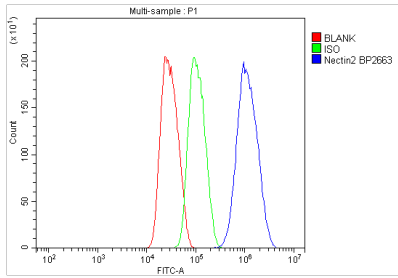


The comprehensive immunosuppressive mechanism in imatinib resistant GIST. a Cell communication analysis on TIGIT-NECTIN2 and BTLA-TNFRSF14 pair between different cell types in imatinib resistant and sensitive patients respectively. Expression of NECTIN2 (b), BTLA (c) and TNFRSF14 (d) in each cell type in imatinib resistant and sensitive patients respectively. e IHC analysis of NECTIN2, BTLA and TNFRSF14 between imatinib resistant (upper) and sensitive (bottom) patients. f Schematic diagram of the unique tumor-immune microenvironment of imatinib-resistance in advanced GIST. Index in PubMed under a CC BY license. PMID: 38443340

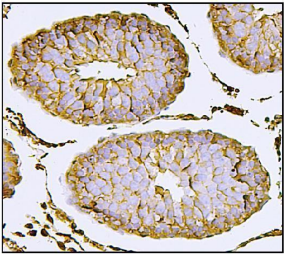


IHC analysis of Nectin 2/NECTIN2 using anti-Nectin 2/NECTIN2 antibody (A08081-2). Nectin 2/NECTIN2 was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Nectin 2/NECTIN2 Antibody (A08081-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

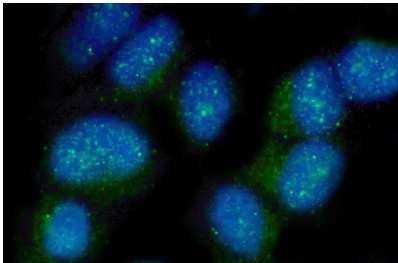
Flow Cytometry analysis of HepG2 cells using anti-Nectin 2/NECTIN2 antibody (A08081-2). Overlay histogram showing HepG2 cells stained with A08081-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization



buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Nectin 2/NECTIN2 Antibody (A08081-2, 1ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IHC analysis of Nectin 2/NECTIN2 using anti-Nectin 2/NECTIN2 antibody (A08081-2). Nectin 2/NECTIN2 was detected in paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Nectin 2/NECTIN2 Antibody (A08081-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IF analysis of Nectin 2/NECTIN2 using anti-Nectin 2/NECTIN2 antibody (A08081-2). Nectin 2/NECTIN2 was detected in immunocytochemical section of HeLa 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 2ug/mL rabbit anti-Nectin 2/NECTIN2 Antibody (A08081-2) 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-Nectin 2/NECTIN2 Antibody

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