

Anti-ICOS Antibody Picoband™

Catalog Number: A00291-3

About ICOS

Inducible T-cell costimulator is an immune checkpoint protein that in humans is encoded by the ICOS gene. The protein encoded by this gene belongs to the CD28 and CTLA-4 cell-surface receptor family. It forms homodimers and plays an important role in cell-cell signaling, immune responses, and regulation of cell proliferation.

Overview

Product Name	Anti-ICOS Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-ICOS Antibody Picoband™ catalog # A00291-3. Tested in ELISA, Flow Cytometry, IHC, ICC applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IHC, ICC
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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	Q9Y6W8

Technical Details

Immunogen	E. coli-derived human ICOS recombinant protein (Position: E21-K140).
Predicted Reactive Species	Chicken
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P), IHC(F) 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.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml

Immunohistochemistry (Frozen Section), 0.5-1ug/ml

Immunocytochemistry, 0.5-1ug/ml

Flow Cytometry, 1-3ug/1x10⁶ cells

Direct ELISA, 0.1-0.5ug/ml

Anti-ICOS Antibody Picoband™ (A00291-3) Images

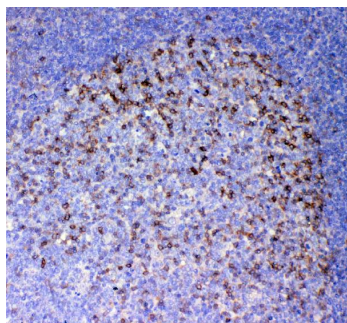


Figure 1. IHC analysis of ICOS using anti-ICOS antibody (A00291-3). ICOS was detected in paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ICOS Antibody (A00291-3) 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.

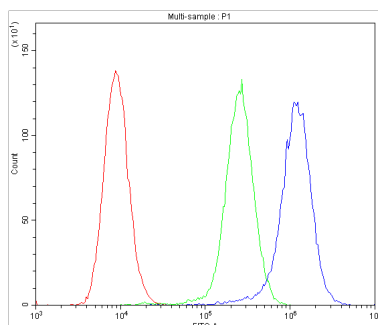


Figure 2. Flow Cytometry analysis of Raji cells using anti-ICOS antibody (A00291-3). Overlay histogram showing Raji cells stained with A00291-3 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ICOS Antibody (A00291-3, 1ug/1x10⁶ cells) for 30 min at 20°C. 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 (Red line) was also used as a control.

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