

Rabbit ICOS Polyclonal Antibody | anti-ICOS antibody

Anti-ICOS Picoband antibody

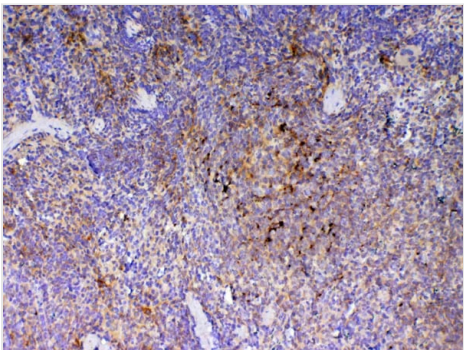
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124561	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

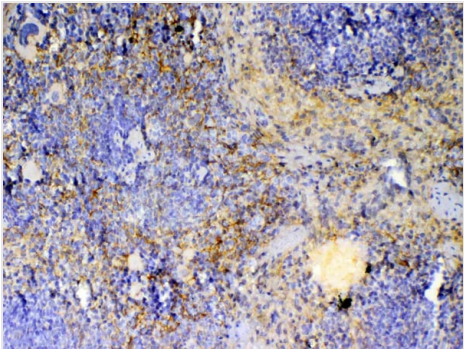
ICOS; Polyclonal Antibody; Anti-ICOS Picoband antibody; Inducible T-cell costimulator; Activation-inducible lymphocyte immunomediatory molecule; CD28 and CTLA-4-like protein; CCLP; CD28-related protein 1; CRP-1; CD278; Icos; Ailim; anti-ICOS antibody

PRODUCT SPECIFICATIONS

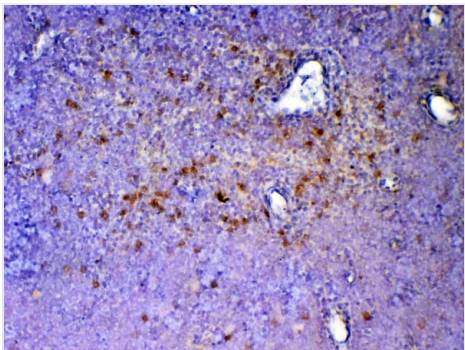
Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	200
Applicable Applications for anti-ICOS antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E Coli-derived mouse ICOS recombinant protein (Position: E21-S200).
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Tissue Specificity	Expressed on activated T-cells and resting memory T-cells. High expression seen in the thymic medulla and in the germinal centers and T-cell zones of lymph nodes and Peyer patches. Expressed at low levels in the spleen.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



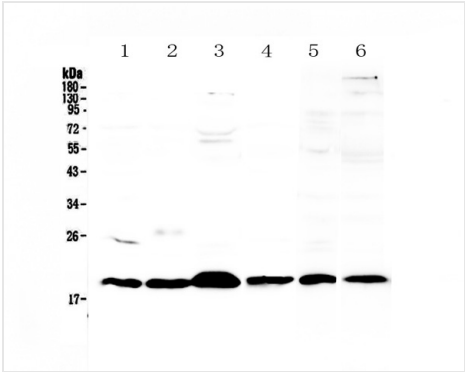
IHC (Immunohistochemistry)
Figure 4. IHC analysis of ICOS using anti-ICOS antibody (AAA124561).ICOS was detected in paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ICOS Antibody (AAA124561) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of ICOS using anti-ICOS antibody (AAA124561).ICOS was detected in paraffin-embedded section of mouse spleen 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 (AAA124561) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of ICOS using anti-ICOS antibody (AAA124561).ICOS was detected in paraffin-embedded section of mouse thymus 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 (AAA124561) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of ICOS using anti-ICOS antibody (AAA124561).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: mouse stomach tissue lysates,Lane 2: mouse spleen tissue lysates,Lane 3: mouse thymus tissue lysates,Lane 4: mouse small intestine tissue lysates,Lane 5: rat thymus tissue lysates,Lane 6: human placenta tissue 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-ICOS antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree 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 with Tanon 5200 system. A specific band was detected for ICOS at approximately 20KD. The expected band size for ICOS is at 22KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ICOS antibody	Description: 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. Protein Function: Enhances all basic T-cell responses to a foreign antigen, namely proliferation, secretion of lymphokines, up- regulation of molecules that mediate cell-cell interaction, and effective help for antibody secretion by B-cells. Essential both for efficient interaction between T and B-cells and for normal antibody responses to T-cell dependent antigens. Does not up- regulate the production of interleukin-2, but superinduces the synthesis of interleukin-10. Prevents the apoptosis of pre- activated T-cells. Plays a critical role in CD40-mediated class switching of immunoglobulin isotypes (By similarity).
Product Categories/Family for anti-ICOS antibody	Immunology; Adaptive Immunity; t cells

NCBI AND UNIPROT INFORMATION

NCBI GI #	224809335
NCBI GeneID	54167
NCBI Accession #	NP_059508.2
NCBI GenBank Nucleotide #	NM_017480.2
UniProt Accession #	Q9WVS0; Q9JL17
Molecular Weight	22,709 Da
NCBI Official Full Name	inducible T-cell costimulator
NCBI Official Synonym Full Names	inducible T cell co-stimulator
NCBI Official Symbol	Icos
NCBI Official Synonym Symbols	H4; CCLP; AILIM; CRP-1; Ly115
NCBI Protein Information	inducible T-cell costimulator
UniProt Protein Name	Inducible T-cell costimulator
UniProt Gene Name	Icos
UniProt Synonym Gene Names	Ailim; CCLP; CRP-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/icos-antibody-western-blot-immunohistochemistry-elisa/124561>