

Mouse anti-Human ICOS-L/ICOS Ligand/B7RP-1 (Immuno-Oncology Target) Monoclonal Antibody | anti-ICOSLG antibody

ICOS-L/ICOS Ligand/B7RP-1 (Immuno-Oncology Target)

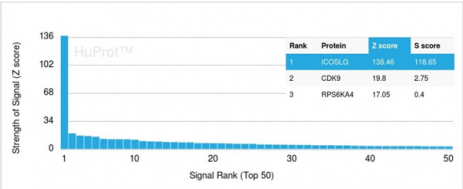
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23916	Mouse	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

ICOS-L/ICOS Ligand/B7RP-1 (Immuno-Oncology Target); Monoclonal Antibody; B7 homolog 2 (B7H2); B7 like protein GI50; B7 related protein 1 (B7RP1); CD275; CD275 antigen; GL50; ICOS LG; ICOS ligand (ICOSL); Inducible T cell co stimulator ligand; LICOS; Transmembrane protein B7 H2 ICOS ligand; anti-ICOSLG antibody

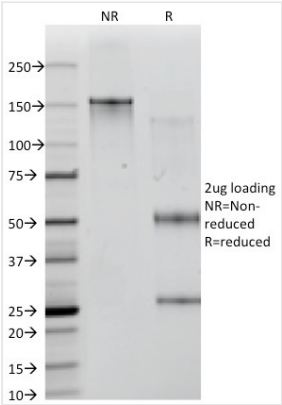
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	ICOSL/3111
Specificity	This MAb recognizes a protein of 36kDa, identified as ICOS-L. It is a ligand for the ICOS receptor that initiates T and B cell proliferation and cytokine secretion. ICOS-L interactions play an essential role in T cell-dependent B cell activation in peripheral lymphoid organs such as spleen and lymph nodes. ICOS-L protein is present in myeloid leukocytes, and by Northern blot there are 2.4, 3.0, and 7.0 kb transcripts in brain, heart, kidney, and liver, with lower expression in colon and thymus, and a 1.1 kb transcript in leukocytes. Tumor necrosis factor alpha (TNF), granulocyte-macrophage colony-stimulating factor (GM-CSF) and interleukin-4 (IL-4) enhance its expression. LPS-induced up-regulation of ICOS-L is dependent on the MyD88-dependent signaling pathway.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	302
Applicable Applications for anti-ICOSLG antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	ELISA: For coating, order antibody without BSA FC/FACS: 1-2ug/million cells IF: 1-2ug/ml Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes)
Positive Control	U937, HL60, HuT78 and HUVEC lysates (WB). Human tonsil tissue (IHC).
Immunogen	Recombinant fragment of human ICOSLG (B7RP-1) protein (around aa 23-149) (exact sequence is proprietary)
Cellular Localization	Cell Surface and Cytoplasmic
Hu-chromosome Location	21q22.3
Preparation and Storage	Store at 2 to 8 degree C.



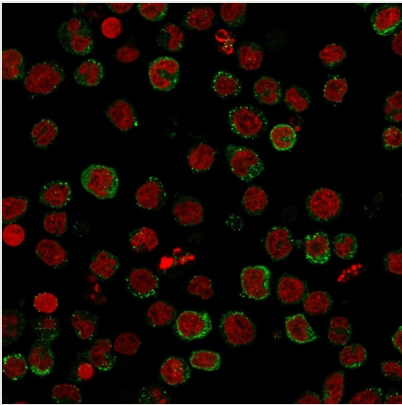
Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using ICOS-L Mouse Monoclonal Antibody (ICOSL/3111). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



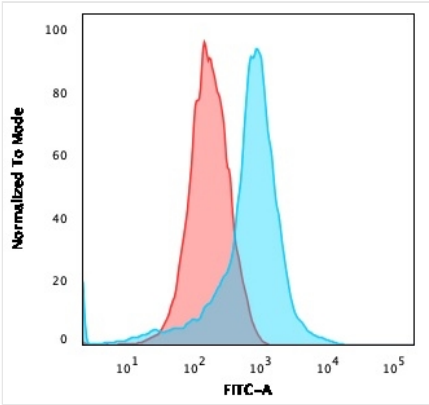
SDS-PAGE

SDS-PAGE Analysis Purified ICOS-L Mouse Monoclonal Antibody (ICOSL/3111). Confirmation of Purity and Integrity of Antibody.



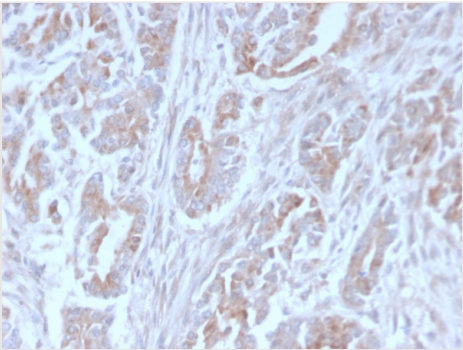
IF (Immunofluorescence)

Immunofluorescence staining of U937 cells using ICOS-L Mouse Monoclonal Antibody (ICOSL/3111) followed by goat anti-Mouse IgG conjugated to CF488 (green). Nuclei are stained with Reddot



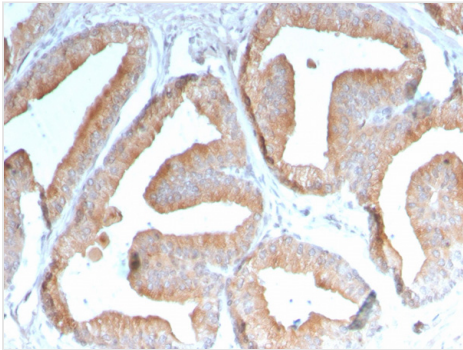
FCM (Flow Cytometry)

Flow Cytometric Analysis of U937 cells using ICOS-L Mouse Monoclonal Antibody (ICOSL/3111) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with ICOS-L Mouse Monoclonal Antibody (ICOSL/3111).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with ICOS-L Mouse Monoclonal Antibody (ICOSL/3111).

ADDITIONAL INFORMATION

References

1. Cao, Y., et al. 2018. Expression of B7-H2 on CD8+ T cells in colorectal cancer microenvironment and its clinical significance. Int Immunopharmacol 56: 128-133. 2. Yoshinaga, S.K., et al. 1999. T cell co-stimulation through B7RP-1 and ICOS. Nature 402: 827-832.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19855066
NCBI GeneID	23308
UniProt Accession #	O75144
Molecular Weight	36kDa
NCBI Official Full Name	ICOS ligand
NCBI Official Synonym Full Names	inducible T cell costimulator ligand
NCBI Official Symbol	ICOSLG
NCBI Official Synonym Symbols	B7h; B7H2; GL50; B7-H2; B7RP1; CD275; ICOSL; LICOS; B7RP-1; ICOS-L
NCBI Protein Information	ICOS ligand
UniProt Protein Name	ICOS ligand
UniProt Gene Name	ICOSLG
UniProt Synonym Gene Names	B7H2; B7RP1; ICOSL; KIAA0653; B7-H2; B7RP-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/monoclonal/icos-l-icos-ligand-b7rp-1-immuno-oncology-target-antibody-clone-icosl-3111-flow-cytometry-immunofluorescence-immunohistochemistry-elisa/23916>