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36-2303: Anti-ICOS-L / ICOS Ligand / B7RP-1 (Immuno-Oncology Target) Monoclonal Antibody(Clone: ICOSL/3111)

Clonality :	Monoclonal
Clone Name :	ICOSL/3111
Application :	ELISA,FACS,IF,IHC
Reactivity :	Human
Gene :	ICOSLG
Gene ID :	23308
Uniprot ID :	O75144
Alternative Name :	B7 homolog 2 (B7H2); B7 like protein Gl50; 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
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant fragment of human ICOSLG (B7RP-1) protein (around aa 23-149) (exact sequence is proprietary)

Description

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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/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.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

ELISA (For coating, order antibody without BSA); Flow Cytometry (1-2ug/million cells); ,Immunofluorescence (1-2ug/ml);,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes),

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Fig. 1: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with ICOS-L Mouse Monoclonal Antibody (ICOSL/3111).

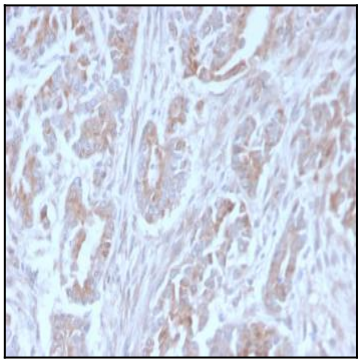

Fig. 2: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with ICOS-L Mouse Monoclonal Antibody (ICOSL/3111).

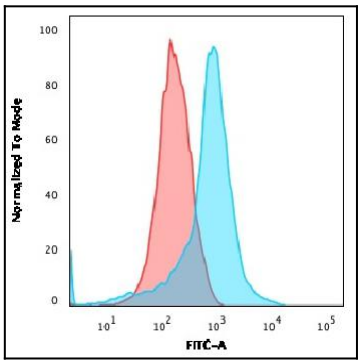

Fig. 3: Flow Cytometric Analysis of U937 cells using ICOS-L Mouse Monoclonal Antibody (ICOSL/3111) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

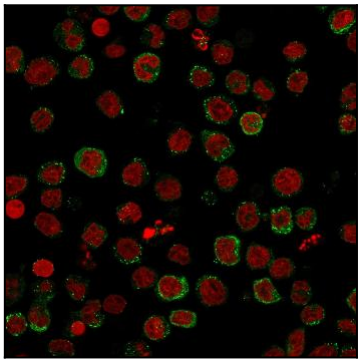

Fig. 4: Immunofluorescence staining of U937 cells using ICOS-L Mouse Monoclonal Antibody (ICOSL/3111) followed by goat anti-Mouse IgG conjµgated to CF488 (green). Nuclei are stained with Reddot

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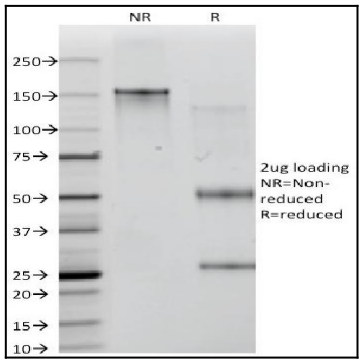

Fig. 5: SDS-PAGE Analysis Purified ICOS-L Mouse Monoclonal Antibody (ICOSL/3111). Confirmation of Purity and Integrity of Antibody.

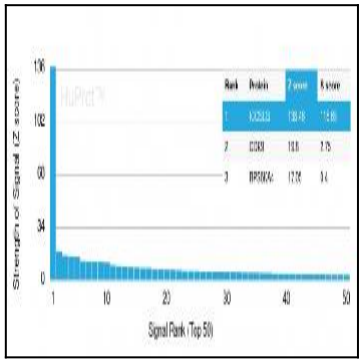

Fig. 6: Analysis of Protein Array containing more than 19,000 full-length human proteins using ICOS-L Mouse Monoclonal Antibody (ICOSL/3111). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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 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.