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Rabbit Anti-ICOS ligand/Cy5 Conjugated antibody

SL2471R-Cy5

Product Name	Anti-ICOS ligand/Cy5
Chinese Name	Cy5 标记的诱导协同刺激分子配体 CD275 抗体
Alias	B7 H2; B7 homolog 2; B7 homologue 2; B7 like protein Gl50; B7 related protein 1; B7-like protein Gl50; B7-related protein 1; B7-H2; B7H2; B7RP 1; B7RP-1; B7RP1; CD 275; CD275; CD275 antigen; GL 50; GL50; ICOS L; ICOS LG; ICOS ligand; ICOSL; ICOSL_HUMAN; Icoslg; Inducible T cell co stimulator ligand; KIAA0653; LICOS; Transmembrane protein B7 H2 ICOS ligand; ICOSLG; ICOS ligand-like; ICOS ligand.
Research Area	immunology transcriptional regulatory factor Cell Surface Molecule
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Rat)
Applications	Flow-Cyt=1μg/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	34kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human ICOS ligand
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** ICOS ligand is a member of the B7 family and the immunoglobulin

superfamily. Human ICOS ligand is expressed by activated monocytes/macrophages and dendritic cells. It binds to a CD28 like receptor, inducible costimulator molecule (ICOS, AILIM, CRP-1), which is expressed by activated T cells. This interaction plays an important role in the T cell costimulation pathway.

Function:
Ligand for the T-cell-specific cell surface receptor ICOS. Acts as a costimulatory signal for T-cell proliferation and cytokine secretion; induces also B-cell proliferation and differentiation into plasma cells. Could play an important role in mediating local tissue responses to inflammatory conditions, as well as in modulating the secondary immune response by co-stimulating memory T-cell function.

Subunit:
Membrane; Single-pass type I membrane protein.

Subcellular Location:
Isoform 1 is widely expressed (brain, heart, kidney, liver, lung, pancreas, placenta, skeletal muscle, bone marrow, colon, ovary, prostate, testis, lymph nodes, leukocytes, spleen, thymus and tonsil), while isoform 2 is detected only in lymph nodes, leukocytes and spleen. Expressed on activated monocytes and dendritic cells.

Similarity:
Belongs to the immunoglobulin superfamily. BTN/MOG family.
Contains 1 Ig-like C2-type (immunoglobulin-like) domain.
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Database links:

Entrez Gene: 23308 Human

Entrez Gene: 50723 Mouse

Omim: 605717 Human

SwissProt: O75144 Human

SwissProt: Q9JHJ8 Mouse

Unigene: 14155 Human

Unigene: 17819 Mouse

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Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

B7 协同刺激分子及其相应受体结合所产生的信号在调节 T 细胞活化及效应性 cell factor 分泌中起重要作用，具有负性调节作用的协同刺激分子对免疫应答的适度进行、防止自身免疫疾病的发生具有重要作用。B7H2 可协同刺激 CD14 + 细胞增殖，并分泌 IL-4、IL-5、IFN-β、TNF-α、GM-CSF 和 IL-10 等 cell factor，但不能协同刺激 T 细胞上调 IL-2 的分泌。