Anti-ICOS ligand [Clone 323] Standard Size Ab02476-30.11

This is an scFv fragment with a His tag.

Isotype and Format: scFv fragment (His), ScFv

Clone Number: Clone 323

Alternative Name(s) of Target: CD275; ICOSLG; ICOSL; B7-H2; B7H2; B7RP-1; B7RP1; KIAA0653; B7 homolog 2; B7-like protein GL50; B7-related protein 1

UniProt Accession Number of Target Protein: O75144

Published Application(s): inhibit, Block, ELISA, FC

Published Species Reactivity: Human

Immunogen: The original antibody was isolated from a human naïve scFv phage library and panning against B7RP-1-Fc protein.

Specificity: This antibody binds human B7RP-1, which is a ligand for T-cell-specific cell surface receptor ICOS. It acts as a costimulatory signal for T-cell proliferation and cytokine secretion and also induces B-cell proliferation and differentiation into plasma cells.

Application Notes: The scFv version of this antibody binds B7RP-1-Fc with a Kd= 9nM. The binding specificity of this antibody was confirmed using ELISA. This scFv version of this antibody was shown to bind B7RP-1-Fc in an ELISA. This antibody recognized B7RP-1 molecules expressed on B cells, as assessed by flow cytometry. This antibody is capable of inhibiting interaction between ICOS-Fc and B7RP-1-Fc. This antibody also exhibited inhibitory activity in a proliferation assay of T cells stimulated with anti-CD3 mAb and B7RP-1-Fc (PMID: 20065650).

Antibody First Published in: Maeda et al. Regulation of T cell response by blocking the ICOS signal with the B7RP-1-specific small antibody fragment isolated from human antibody phage library. MAbs. (2009); 1(5): 453–461. PMID:20065650

Note on publication: Describes the generation of this antibody and its use in the study of T cell response by blocking the ICOS signal using this antibody.

Product Form

Size: 50 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4⁰C for up to 3 months. For longer storage, aliquot and store at -

20ºC.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.