

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse B7-H2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) B7-H2, rhB7-H3, rhB7-H3b, rhPD-L2, recombinant mouse (rm) B7-1, rmB7-2, rmB7-H1, rmB7-H3, rmB7-H4, rmPD-L2, or recombinant rat B7-2 is observed.
Source	Monoclonal Rat IgG ₁ Clone # 599841
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse B7-H2 Glu47-Lys279 Accession # Q9JHJ8
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
Immunocytochemistry	8-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Flow Cytometry</p> <p>Detection of B7-H2 in A20 Mouse Cell Line by Flow Cytometry. A20 mouse B cell lymphoma cell line was stained with Mouse B7-H2 Monoclonal Antibody (Catalog # MAB158, filled histogram) or isotype control antibody (Catalog # MAB005, open histogram), followed by Phycoerythrin-conjugated Anti-Rat IgG F(ab')₂ Secondary Antibody (Catalog # F0105B).</p>	<p>Immunocytochemistry</p> <p>B7-H2 in Mouse Splenocytes. B7-H2 was detected in immersion fixed mouse splenocytes using Rat Anti-Mouse B7-H2 Monoclonal Antibody (Catalog # MAB158) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

B7-H2, also called B7RP-1 and ICOSL, is a 60 kDa member of the B7 family of immune costimulatory proteins. It is expressed on resting B cells, dendritic cells, monocytes, alveolar epithelial cells, and placental trophoblasts. B7-H2 interactions with ICOS promote lymphocyte differentiation and activation. Within the ECD, mouse B7-H2 shares 49% and 70% aa sequence identity with human and rat B7-H2, respectively.