

Monoclonal Rat IgG_{2A} Clone # 133412 Catalog Number: MAB11469

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse B7-2/CD86 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse B7-1, recombinant human (rh) B7-1 or rhB7-2 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 133412
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	LPS-activated mouse B cells
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

DATA

Please Note: Optimal dilutions should be determined by each l	laboratory for each application. General Protocols are available in the Techr	nical Information section on our website.
	Recommended Concentration	Sample
Immunohistochemistry	3-25 μg/mL	Immersion fixed paraffin-embedded sections of mouse spleen

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Immunohistochomistry

Detection of B7-2/CD86 in louse Spleen. B7-2/CD86 was etected in immersion fixed araffin-embedded sections of nouse spleen using Rat Anti-Jouse B7-2/CD86 Monoclonal Antibody (Catalog # mab11469) at µg/ml for 1 hour at room emperature followed by incubation vith the Anti-Rat IgG VisUCyte™ IRP Polymer Antibody (Catalog # (C005). Before incubation with the rimary antibody, tissue was ubjected to heat-induced epitope etrieval using VisUCyte Antigen Retrieval Reagent-Basic Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE				
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.			
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, immediately at the temperature recommended below.			
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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. 			

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Mouse B7-2/CD86 Antibody

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BACKGROUND

B7-1 and B7-2, together with their receptors CD28 and CTLA-4, constitute one of the dominant costimulatory pathways that regulate T- and B-cell responses. Although both CTLA-4 and CD28 can bind to the same ligands, CTLA-4 binds to B7-1 and B7-2 with a 20-100 fold higher affinity than CD28 and is involved in the down-regulation of the immune response. B7-1 is expressed on activated B cells, activated T cells, and macrophages. B7-2 is constitutively expressed on interdigitating dendritic cells, Langerhans cells, peripheral blood dendritic cells, memory B cells, and germinal center B cells. Additionally, B7-2 is expressed at low levels on monocytes and can be up-regulated through interferon y. B7-1 and B7-2 are both members of the immunoglobulin superfamily. Mouse B7-2 is a 309 amino acid (aa) protein containing a putative 23 aa signal peptide, a 221 aa extracellular domain, a 21 aa transmembrane domain, and a 44 aa cytoplasmic domain. Mouse B7-2 and B7-1 share 28% amino acid identity. Mouse and human B7-2 share 50% amino acid identity. However, it has been observed that both human and mouse B7-1 and B7-2 con bind to either human or mouse CD28 and CTLA-4, suggesting that there are conserved amino acids which form the B7-1/B7-2/CD28/CTLA-4 critical binding sites.

References:

- 1. Azuma, M. et al. (1993) Nature 366:76.
- 2. Freeman, G.J. et al. (1993) Science 262:909.
- 3. Freeman, G. et al. (1991) J. Exp. Med. 174:625.
- 4. Selvakumar, A. et al. (1993) Immunogenetics 38:292.
- 5. Chen, C. et al. (1994) J. Immunol. 152:4929.
- 6. Freeman, G.J. et al. (1993) J. Exp. Med. 178:2185.