TECHNICAL DATA SHEET

Purified Anti-Mouse CD86 (B7-2) (GL-1)

Catalog Number: 70-0862

PRODUCT INFORMATION

Contents: Purified Anti-Mouse CD86 (B7-2) (GL-1)

Isotype: Rat IgG2a, kappa

Concentration: 0.5 mg/mL

Clone: GL-1 (GL1)

Reactivity: Mouse

Formulation: 10 mM NaH_2PO_4, 150 mM NaCl, 0.09% NaN_3, pH7.2

DESCRIPTION

The GL-1 antibody reacts with mouse CD86, also known as B7-2, an 80 kDa cell surface protein which is a ligand for CD28, a co-stimulatory receptor for the T cell receptor (TCR). CD28 can also bind a second B7 ligand known as CD80 (B7-1). Both CD80 and CD86 are expressed on activated B cells and antigen-presenting cells. These ligands trigger CD28 signaling in concert with TCR activation to drive T cell proliferation, induce high-level expression of IL-2, impart resistance to apoptosis, and enhance T cell cytotoxicity. The interaction / co-stimulatory signaling between the B7 ligands and CD28 provides crucial communication between T cells and B cells or APCs to coordinate the adaptive immune response. The GL-1 antibody may be used as a marker for CD86 expression on B cells, macrophages, and dendritic cells.

PREPARATION & STORAGE

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

APPLICATION NOTES

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

REFERENCES

Liu Z, Geboes K, Hellings P, Maerten P, Heremans H, Vandenberghe P, Boon L, van Kooten P, Rutgeerts P, and Ceuppens JL. 2011. J. Immunol. 167: 1830-1838. (in vivo blocking, immunohistochemistry – OCT embedded frozen tissue)Kastenmuller W, Gasteiger G, Subramanian N, Sparwasser T, Busch DH, Belkaid Y, Drexler I, and Germain RN, 2011. J. Immunol. 187: 3186-3197. (in vivo blocking)Zheng SG, Wang JH, Stohl, W, Kim KS, Gray JD, and Horwitz DA. 2006. J. Immunol. 176:3321-3329. (in vitro blocking)Leithauser F, Meinhardt-Krajina T, Fink K, Wotschke B, Moller P and Reimann J. 2006. Am. J. Pathol. 168(6): 1898-1909. (immunohistochemistry – frozen tissue)Odobasic D, Kitching AR, Semple TJ, Timoshanko JR, Tipping PG, and Holdsworth SR. 2005. J. Am. Soc. Nephrol. 16: 2012-2022. (in vivo activation, immunofluorescence microscopy – frozen tissue, immunohistochemistry – frozen tissue)Lenschow DJ, Ho SC, Sattar H, Rhee L, Gray G, Nabavi N,Herold KC, and Bluestone JA. 1995. J. Exp. Med. 181:1145-155. (in vitro blocking)Blazar BR, Taylor PA, Panoskaltsis-Mortari A, Gray GS, and Vallera DA. 1995. Blood. 85: 2607-2618. (immunohistochemistry – OCT embedded frozen tissue)

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.