

TECHNICAL DATA SHEET

Purified Anti-Mouse CD80 (B7-1) (16-10A1)

Catalog Number: 70-0801

PRODUCT INFORMATION

Contents: Purified Anti-Mouse CD80 (B7-1) (16-10A1)

Isotype: Armenian Hamster IgG

Concentration: 0.5 mg/mL

Clone: 16-10A1

Reactivity: Mouse

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, pH7.2

DESCRIPTION

The 16-10A1 antibody reacts with mouse CD80, also known as B7-1, a 55 kDa type I transmembrane protein ligand for CD152 (CTLA-4) and CD28, a co-stimulatory receptor for the T cell receptor (TCR). CD28 also binds a second B7 ligand known as CD86 (B7-2). 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 or CTLA-4 provides crucial communication between T cells and B cells or APCs to coordinate the adaptive immune response.

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

Thaventhiran JED, Hoffmann A, Magiera L, de la Roche M, Lingel H, Brunner-Weinzierl M, and Fearon DT. 2012. Proc. Natl. Acad. Sci. 10.1073. (in vitro blocking, flow cytometry)Liu Z, Geboes K, Hellings P, Maerten P, Heremans H, Vandenbergh 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)Anraku M, Tagawa T, Wu Licun, Yun Z, Keshavjee S, Zhang L, Johnston MR, and de Perrot M. 2010. J. Immunol. 185:956-966. (flow cytometry) 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 and 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)Razi-Wold Z, Freeman GJ, Galvin F, Benacerraf B, Nadler L, and Reiser H. 1992. Proc. Natl. Acad. Sci. 89:4210-4214. (Origination of clone, immunoprecipitation, in vitro blocking)

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.

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