

TECHNICAL DATA SHEET

# Purified Anti-Mouse MHC Class II (I-A/I-E) (M5/114.15.2)

Catalog Number: 70-5321

## PRODUCT INFORMATION

**Contents:** Purified Anti-Mouse MHC Class II (I-A/I-E)

**Isotype:** Rat IgG2b, kappa

**Concentration:** 0.5 mg/mL

**Clone:** M5/114.15.2

**Reactivity:** Mouse

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, pH7.2

## DESCRIPTION

The M5/114.15.2 antibody reacts with mouse MHC Class II alloantigens I-Ab, I-Ad, I-Aq, I-Ed, and I-Ek, as well as being cross-reactive with mouse cells of H-2p and H-2r haplotype. MHC Class II is widely expressed by mouse immune cells bearing these alloantigens, including T and B cells, monocytes, macrophages, and dendritic cells. The antibody does not react with the following alloantigens: I-Af, I-Ak, I-As, or NOD H-2g. The M5/114.15.2 antibody may be used for analysis of mouse cells expressing MHC Class II alloantigens as described. Please note that the M5/114.15.2 clone may also be referred to as M5/114 in the literature.

## 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

Staeheil F, Ludigs K, Heinz LX, Segin-Estevez Q, Ferrero I, Braun M, Schroder K, Rebsamen M, Tardivel A, Mattmann C, MacDonald HR, Romero P, Reith W, Guarda G, and Tschopp J. 2012. *J. Immunol.* 188: 3820-3828. (flow cytometry) Parra D, Rieger AM, Li J, Zhang Y-A, Randall LM, Hunter CA, Barreda DR, and Sunyer JO. 2012. *J. Leukoc. Biol.* 91:525-536. (in vitro blocking, flow cytometry) Scarlett UK, Rutkowski MR, Rauwerdink AM, Fields J, Escovar-Fadul X, Baird J, Cubillos-Ruiz JR, Jacobs AC, Gonzalez JL, Weaver J, Fiering S, and Conejo-Garcia JR. 2012. *J. Exp. Med.* 209: 495-506. (immunofluorescence microscopy – frozen tissue) Chen M, Felix K, and Wang J. 2011. *J. Immunol.* 187: 5684-5692. (in vitro blocking) Busman-Sahay K, Sargent E, Harton JA, and Drake JR. 2011. *J. Immunol.* 186:6710-6717. (immunoprecipitation) Ohmura-Hoshino M, Matsuki Y, Aoki M, Goto E, Mito M, Uematsu M, Hakiuchi T, Hotta H, and Ishido S. 2006. *J. Immunol.* 177:341-354. (immunofluorescence microscopy – frozen tissue, immunoprecipitation) Li C, Siemasko K, Clark MR, and Song W. 2002. *Int. Immunol.* 14: 1179-1191. (western blot, Immunoelectron microscopy)

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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