

TECHNICAL DATA SHEET

# PE Anti-Mouse CD275 (B7-H2) (HK5.3)

Catalog Number: 50-5985

## PRODUCT INFORMATION

**Contents:** PE Anti-Mouse CD275 (B7-H2) (HK5.3)

**Isotype:** Rat IgG2a, kappa

**Concentration:** 0.2 mg/mL

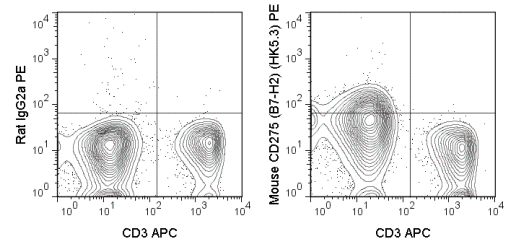
**Clone:** HK5.3

**Reactivity:** Mouse

**Use By:** 12 months from date of receipt

**Storage Conditions:** 2-8°C protected from light

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, 0.1% gelatin, pH7.2



C57Bl/6 spleen cells were stained with APC Anti-Mouse CD3 (20-0031) and 0.06 ug PE Anti-Mouse CD275 (50-5985) (right panel) or 0.06 ug PE Rat IgG2a isotype control (left panel).

## DESCRIPTION

The HK5.3 antibody reacts with mouse CD275, an approximately 40 kDa protein that is a member of the Ig superfamily. CD275 is also known as B7-H2, ICOS ligand, and B7-RP1. CD275 is a ligand for ICOS (CD278) that is expressed on activated T cells. CD275 is expressed by antigen presenting cells including B cells, macrophages, and dendritic cells. The interaction of CD275 with its receptor ICOS plays an important role in T cell costimulation.

## PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

## APPLICATION NOTES

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). Please refer to the figure legend for the optimal concentration used to stain the tissue shown. We recommend titrating the antibody under your specific conditions to determine the optimal concentration of antibody needed in your experimental system.

## REFERENCES

Yoshinaga SK, Whoriskey JS, Khare SD, Sarmiento U, Guo J, Horan T, Shih G, Zhang M, Coccia MA, Kohno T, Tafuri-Bladt A, Brankow D, Campbell P, Chang D, Chiu L, Dai T, Duncan G, Elliott GS, Hui A, McCabe SM, Scully S, Shahinian A, Shaklee CL, Van G, Mak TW, Senaldi G. 1999. *Nature*. Dec 16;402(6763):827-832. Ling V, Wu PW, Finnerty HF, Bean KM, Spaulding V, Fouser LA, Leonard JP, Hunter SE, Zollner R, Thomas JL, Miyashiro JS, Jacobs KA, Collins M. 2000. *J Immunol*. Feb 15;164(4):1653-1657. Iwai H, Abe M, Hirose S, Tsushima F, Tezuka K, Akiba H, Yagita H, Okumura K, Kohsaka H, Miyasaka N, Azuma M. 2003. *J Immunol*. Sep 15;171(6):2848-2854. Kohyama M1, Sugahara D, Sugiyama S, Yagita H, Okumura K, Hozumi N. 2004. *Proc Natl Acad Sci USA*. Mar 23;101(12):4192-4197.

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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