

# CD275 (B7-H2) Monoclonal Antibody (HK5.3), Functional Grade, eBioscience™

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HK5.3
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_469183

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	4 Publications
Neutralization (Neu)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	-
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

**Description:** The HK5.3 monoclonal antibody reacts with mouse B7RP-1, also known as B7h, B7-H2, GL50 and ICOS Ligand. B7RP-1, a member of the B7 family, has a predicted molecular weight of ~40 kDa and belongs to the Ig superfamily. Mouse B7RP-1 is expressed by antigen presenting cells including B cells, monocytes/macrophages and dendritic cells. B7RP-1 binds to the ICOS molecule (AILIM, CRP-1) expressed by activated T cells. The interaction of ICOS/B7RP-1 plays an important role in the T cell costimulation pathway.

**Applications Reported:** The HK5.3 antibody has been reported for use in flow cytometric analysis. It has also been reported in blocking in functional assays.

**Applications Tested:** The HK5.3 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Storage and handling:** Use in a sterile environment.

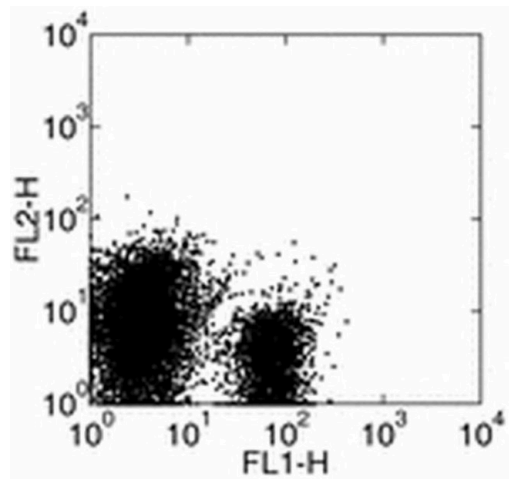
**Filtration:** 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/μg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

**Product Images For CD275 (B7-H2) Monoclonal Antibody (HK5.3), Functional Grade, eBioscience™**



**CD275 (B7-H2) Antibody (16-5985-85) in Flow**  
Staining of mouse splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and Anti-Mouse CD275 (B7-H2) PE. Total viable cells were used for analysis.

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## Flow Cytometry (4)

<p><b>Oncotarget</b></p> <p><b>Lysis-independent potentiation of immune checkpoint blockade by oncolytic virus.</b></p> <p>"Published figure using CD275 (B7-H2) monoclonal antibody (Product # 16-5985-85) in Flow Cytometry"</p> <p>Authors: Oseledchyk A,Ricca JM,Gigoux M,Ko B,Redelman-Sidi G,Walther T,Liu C,Iyer G,Merghoub T,Wolchok JD,Zamarin D</p>	<p><b>Year</b> 2018</p>
<p><b>The Journal of allergy and clinical immunology</b></p> <p><b>Critical role of plasmacytoid dendritic cells in induction of oral tolerance.</b></p> <p>"16-5985 was used in Flow cytometry/Cell sorting to determine the role of plasmacytoid dendritic cells (pDCs)."</p> <p>Authors: Uto T,Takagi H,Fukaya T,Nasu J,Fukui T,Miyanaga N,Arimura K,Nakamura T,Chojjookhuu N,Hishikawa Y,Sato K</p>	<p><b>Year</b> 2018</p> <p><b>Species</b> Mouse</p>

[View more Flow references on thermofisher.cn](#)

## Neutralization (1)

<p><b>Blood</b></p> <p><b>Preventing restimulation of memory B cells in hemophilia A: a potential new strategy for the treatment of antibody-dependent immune disorders.</b></p> <p>"16-5985 was used in Blocking experiments to study the requirements for the restimulation of FVIII-specific memory B cells and their differentiation into anti-FVIII antibody-producing cells."</p> <p>Authors: Hausl C,Ahmad RU,Schwarz HP,Muchitsch EM,Turecek PL,Dorner F,Reipert BM</p>	<p><b>Year</b> 2004</p> <p><b>Species</b> Mouse</p>
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## Miscellaneous PubMed (1)

<p><b>Molecular medicine (Cambridge, Mass.)</b></p> <p><b>Enhanced inducible costimulator ligand (ICOS-L) expression on dendritic cells in interleukin-10 deficiency and its impact on T-cell subsets in respiratory tract infection.</b></p> <p>"16-5985 was used in Magnetic cell separation to test the relationship between Interleukin-10 production and Enhanced Inducible Costimulator Ligand (ICOS-L) expression by dendritic cells."</p> <p>Authors: Gao X,Zhao L,Wang S,Yang J,Yang X</p>	<p><b>Year</b> 2013</p> <p><b>Species</b> Mouse</p>
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## More applications with references on thermofisher.cn

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