

B7-H4 Monoclonal Antibody (H74), eBioscience™

Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	H74
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467739

Applications	Tested Dilution	Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	-
ELISA (ELISA)	-	2 Publications
Neutralization (Neu)	-	1 Publication

Product Specific Information

Description: The H74 monoclonal antibody was generated and reacts with human B7-S1, also known as B7-H4 and B7x. Cross reactivity of this antibody to other proteins has not been determined. B7S1 is a newly discovered member of the B7 family. It is speculated that the costimulatory regulation of T cells by B7S1 is influenced by the activation status of B cells. While it is reported that BTLA is a counter receptor for B7S1, further studies are needed to definitely determine the B7-H4 ligand. H74 stains human B7-H4 transfected cells and not peripheral blood cells. Exact expression pattern of B7-H4 has not been fully characterized.

Applications Reported: This H74 antibody has been reported for use in flow cytometric analysis.

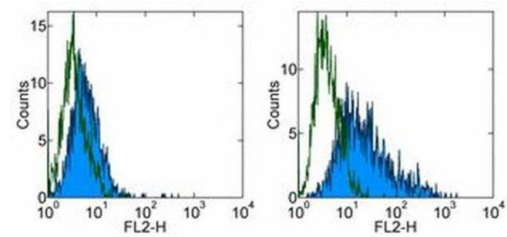
Applications Tested: This H74 antibody has been tested by flow cytometric analysis of transient hB7-H4 transfected cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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

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

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For B7-H4 Monoclonal Antibody (H74), eBioscience™



B7-H4 Antibody (14-5949-82) in Flow

Staining of non-transfected (left) and human B7-H4-transfected (right) HEK 293T cells with 0.125 µg of Mouse IgG1 kappa Isotype Control Purified (Product # 14-4714-82) (open histogram) or 0.125 µg of Anti-Human B7-H4 Purified (filled histogram) followed by Anti-Mouse IgG Biotin (Product # 13-4013-85) and Streptavidin PE (Product # 12-4317-87). Total cells were used for analysis.

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Immunohistochemistry (Paraffin) (2)

<p>Clinical cancer research : an official journal of the American Association for Cancer Research</p> <p>B7-h4 expression in human melanoma: its association with patients' survival and antitumor immune response.</p> <p>"14-5949 was used in Immunohistochemistry to provide evidence of B7-H4 expression on melanoma cells as a mechanism controlling tumour immunity."</p> <p>Authors: Quandt D,Fiedler E,Boettcher D,Marsch WCh,Seliger B</p>	<p>Year 2011</p> <p>Species Human</p> <p>Dilution 1:50</p>
<p>Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc</p> <p>Tumor associated endothelial expression of B7-H3 predicts survival in ovarian carcinomas.</p> <p>"14-5949 was used in Immunohistochemistry to examine the expression of B7-H3 and B7x in 103 ovarian borderline tumours and carcinomas and study associations with clinical outcome."</p> <p>Authors: Zang X,Sullivan PS,Soslow RA,Waitz R,Reuter VE,Wilton A,Thaler HT,Arul M,Slovin SF,Wei J,Spriggs DR,Dupont J,Allison JP</p>	<p>Year 2010</p> <p>Species Human</p>

Immunocytochemistry (1)

<p>Parasites & vectors</p> <p>Effect of B7-H4 downregulation induced by Toxoplasma gondii infection on dysfunction of decidual macrophages contributes to adverse pregnancy outcomes.</p> <p>"Published figure using B7-H4 monoclonal antibody (Product # 14-5949-82) in Neutralization"</p> <p>Authors: Cui L,Wang Y,Ren L,Li Z,Jiang Y,Wang C,Liu X,Ren Y,Hu X</p>	<p>Year 2022</p>
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ELISA (2)

<p>World journal of surgical oncology</p> <p>Serum B7-H4 expression is a significant prognostic indicator for patients with gastric cancer.</p> <p>"14-5949 was used in an ELISA assay to investigate the correlations between sB7-H4 levels and clinicopathological parameters as well as the survival rate of patients with gastric cancer."</p> <p>Authors: Shi H, Ji M, Wu J, Zhou Q, Li X, Li Z, Zheng X, Xu B, Zhao W, Wu C, Jiang J</p>	<p>Year 2014</p> <p>Species Human</p>
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More applications with references on thermofisher.com

Neu (1)

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