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3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Hu CD314 Purified Azide Free KLRK1 Monoclonal Antibody

Catalog Number: M00661

About KLRK1

CD314, also known as NKG2D (natural killer receptor G2D) or KLRK1 (killer cell lectin-like receptor subfamily K, member 1), is a homodimeric C-type lectin-like activating receptor and costimulator with type II membrane orientation (C teminus extracellular). CD314 homodimers are associated with DAP10, a membrane adaptor protein that signals similar to CD28 by recruitment of phosphatidylinositol 3-kinase. Engagement of CD314 amplifies antigen-specific T cell responses in CD314-positive T cell populations. In NK cells, CD314 is a primary activating receptor. As CD314 ligands the MHC class-I chain-related proteins A and B (MICA, MICB) and UL16-binding proteins (ULBPs) have been identified.

Overview

Product Name	Anti-Hu CD314 Purified Azide Free KLRK1 Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Hu CD314 Purified Azide Free KLRK1 Monoclonal Antibody (Catalog# M00661). Tested in Flow Cytometry, IP, IHC-F, Functional Assay application(s). This antibody reacts with Human.
Application	Flow Cytometry, IP, IHC-F, Functional Assay
Clonality	Monoclonal 1D11
Formulation	Phosphate buffered saline (PBS), pH 7.4, azide-free
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P26718

Technical Details

Immunogen	NKL cell line. The mouse monoclonal antibody 1D11 recognizes an extracellular epitope of CD314 / NKG2D, a 42 kDa C-type lectin-like activating receptor expressed by NK cells, gamma/delta T cells, and CD8+ T cells.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1 kappa
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

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	kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Functional application: Blocking of ligand binding. Immunohistochemistry: 5-10 ug/ml. Flow cytometry: 1-4 µg/ml

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Anti-Hu CD314 Purified Azide Free KLRK1 Monoclonal Antibody (M00661) Images

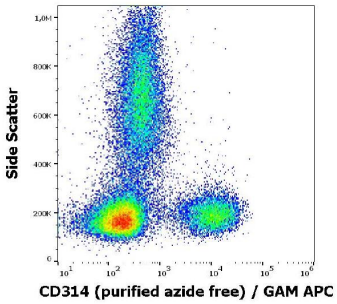

Figure 1. Flow Cytometry validation of KLRK1 using Anti-Hu CD314 Purified Azide Free KLRK1 Monoclonal Antibody (M00661).

Flow cytometry surface staining pattern of human peripheral blood cells stained using anti-human CD314 (1D11) purified antibody (azide free

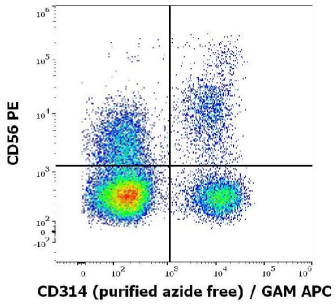

Figure 2. Flow Cytometry validation of KLRK1 using Anti-Hu CD314 Purified Azide Free KLRK1 Monoclonal Antibody (M00661).

Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD314 (1D11) purified antibody (azide free

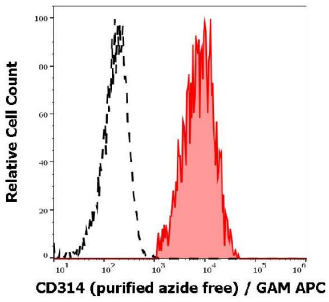

Figure 3. Flow Cytometry validation of KLRK1 using Anti-Hu CD314 Purified Azide Free KLRK1 Monoclonal Antibody (M00661).

Separation of human CD314 positive CD56 positive NK cells (red-filled) from CD314 negative CD56 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD314 (1D11) purified antibody (azide free

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