.-online.com antibodies

Datasheet for ABIN1027686 anti-KLRK1 antibody

3 Images

7 Publications



Overview

Quantity:	0.1 mg
Target:	KLRK1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KLRK1 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	NKL cell line
Clone:	1D11
Isotype:	IgG1 kappa
Specificity:	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.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN1027686 | 01/29/2024 | Copyright antibodies-online. All rights reserved.

Target Details

Target:	KLRK1
Alternative Name:	CD314 (KLRK1 Products)
Background:	Killer cell lectin like receptor K1,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.,NKG2D, KLRK1, KLR
Gene ID:	22914
UniProt:	P26718
Pathways:	Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL.	
Restrictions:	For Research Use only	
Handling		
Concentration:	1 mg/mL	
Buffer [.]	Phosphate buffered saline (PBS) pH 7 4, 15 mM sodium azide	

Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN1027686 | 01/29/2024 | Copyright antibodies-online. All rights reserved. Product cited in:

Valencia, Hernández-López, Martínez, Hidalgo, Zapata, Vicente, Varas, Sacedón: "Transient beta-catenin stabilization modifies lineage output from human thymic CD34+CD1aprogenitors." in: **Journal of leukocyte biology**, Vol. 87, Issue 3, pp. 405-14, (2010) (PubMed).

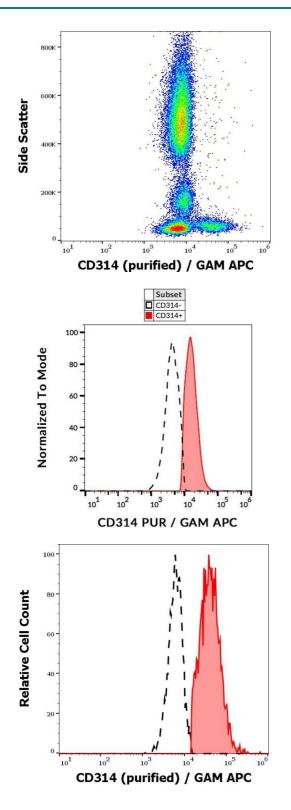
Hasenkamp, Borgerding, Uhrberg, Falk, Chapuy, Wulf, Jung, Trümper, Glass: "Self-tolerance of human natural killer cells lacking self-HLA-specific inhibitory receptors." in: **Scandinavian journal of immunology**, Vol. 67, Issue 3, pp. 218-29, (2008) (PubMed).

Sangiolo, Martinuzzi, Todorovic, Vitaggio, Vallario, Jordaney, Carnevale-Schianca, Capaldi, Geuna, Casorzo, Nash, Aglietta, Cignetti: "Alloreactivity and anti-tumor activity segregate within two distinct subsets of cytokine-induced killer (CIK) cells: implications for their infusion across major HLA barriers." in: **International immunology**, Vol. 20, Issue 7, pp. 841-8, (2008) (PubMed).

Ebert, Meuter, Moser: "Homing and function of human skin gammadelta T cells and NK cells: relevance for tumor surveillance." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 176, Issue 7, pp. 4331-6, (2006) (PubMed).

Wu, Groh, Spies: "T cell antigen receptor engagement and specificity in the recognition of stress-inducible MHC class I-related chains by human epithelial gamma delta T cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 169, Issue 3, pp. 1236-40, (2002) (PubMed).

There are more publications referencing this product on: Product page



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD314 (1D11) purified antibody (concentration in sample $4 \mu g/mL$) GAM APC.

Flow Cytometry

Image 2. Surface staining of human peripheral blood with anti-human CD314 (1D11) purified.

Flow Cytometry

Image 3. Separation of human CD314 positive lymphocytes (red-filled) from CD314 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD314 (1D11) purified antibody (concentration in sample 4 µg/mL) GAM APC.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN1027686 | 01/29/2024 | Copyright antibodies-online. All rights reserved.