

Product Name: CD314 Rabbit Polyclonal Antibody
Catalog #: APRab08356



Summary

Production Name	CD314 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	KLRK1 D12S2489E NKG2D
Alternative Names	NKG2-D type II integral membrane protein (Killer cell lectin-like receptor subfamily K member 1;NK cell receptor D;NKG2-D-activating NK receptor;CD antigen CD314)
Gene ID	100528032.0
SwissProt ID	P26718.Synthetic peptide from human protein at AA range: 167-216

Application

Dilution Ratio	IHC-p 1:50-200, ELISA 1:10000-20000.
Molecular Weight	

Background

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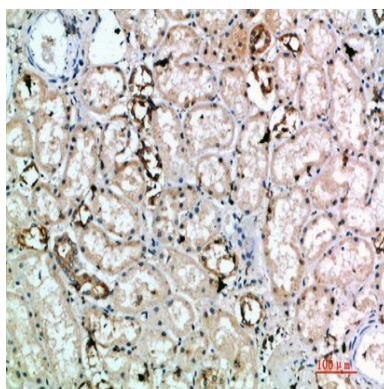


Natural killer (NK) cells are lymphocytes that can mediate lysis of certain tumor cells and virus-infected cells without previous activation. They can also regulate specific humoral and cell-mediated immunity. NK cells preferentially express several calcium-dependent (C-type) lectins, which have been implicated in the regulation of NK cell function. The NKG2 gene family is located within the NK complex, a region that contains several C-type lectin genes preferentially expressed in NK cells. This gene encodes a member of the NKG2 family. The encoded transmembrane protein is characterized by a type II membrane orientation (has an extracellular C terminus) and the presence of a C-type lectin domain. It binds to a diverse family of ligands that include MHC class I chain-related A and B proteins and UL-16 binding proteins, where ligand-receptor interactions can result in the activation of alternative products: A number of isoforms are produced, function: Receptor for MICA, MICB, ULBP1, ULBP2, ULBP3 (ULBP2 > ULBP1 > ULBP3) and ULBP4. Plays a role as a receptor for the recognition of MHC class I HLA-E molecules by NK cells and some cytotoxic T-cells. Involved in the immune surveillance exerted by T- and B-lymphocytes., miscellaneous: Structurally distinct families of ligands for mouse and human NKG2D receptors have been characterized. They might be orthologs., online information: NKG-2D, similarity: Contains 1 C-type lectin domain., subunit: Homodimer. Interacts with DAP10. The interaction with DAP10 is required for NKG2D cell surface expression., tissue specificity: Natural killer cells. Expressed on essentially all CD56+CD3- NK cells from freshly isolated PBMC. Also detected in gamma-delta cells and CD8+ alpha-beta T-cells. Expressed in interferon-producing killer dendritic cells (IKDCs),

Research Area

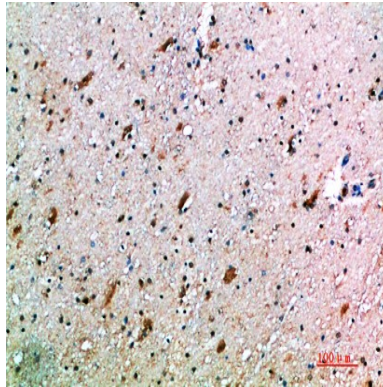
Natural killer cell mediated cytotoxicity;

Image Data

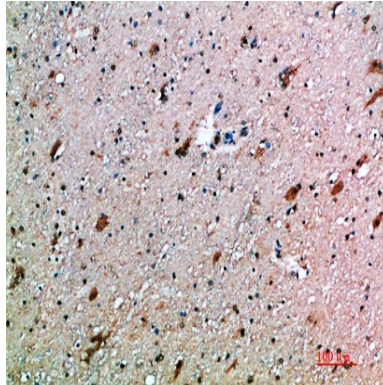


Immunohistochemical analysis of paraffin-embedded human-kidney, antibody was diluted at 1:200

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Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:200



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:200

Note

For research use only.