



CD314 Polyclonal Antibody

Catalog No	YP-Ab-14103
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	IHC;IF;ELISA
Gene Name	KLRK1 D12S2489E NKG2D
Immunogen	Synthetic peptide from human protein at AA range: 167-216
Specificity	The antibody detects endogenous CD314
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC-p 1:50-200, ELISA 1:10000-20000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CD314;KLRK1 D12S2489E NKG2D;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);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)
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cell membrane ; Single-pass type II membrane protein . Colocalized with HCST on the cell surface.
Tissue Specificity	Expressed in natural killer (NK) cells, CD8(+) alpha-beta and gamma-delta T-cells. Expressed on essentially all CD56+CD3- NK cells from freshly isolated PBMC. Expressed in interferon-producing killer dendritic cells (IKDCs).
Function	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).

Background

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

matters needing attention

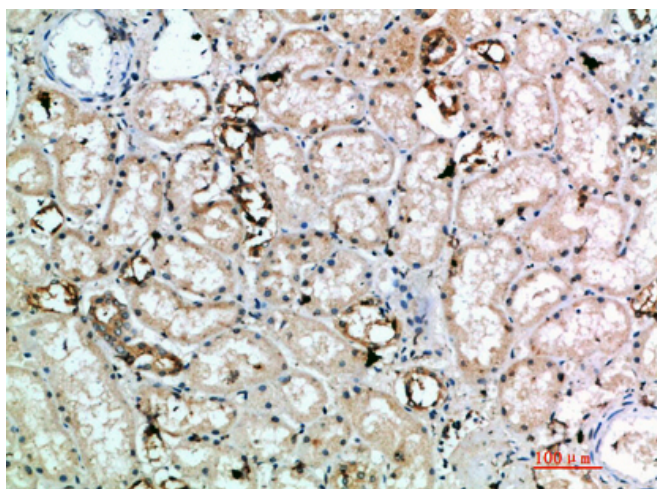
Avoid repeated freezing and thawing!

Usage suggestions

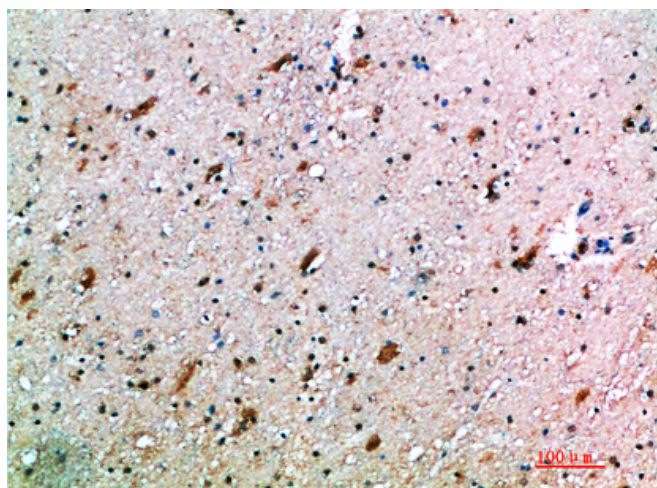
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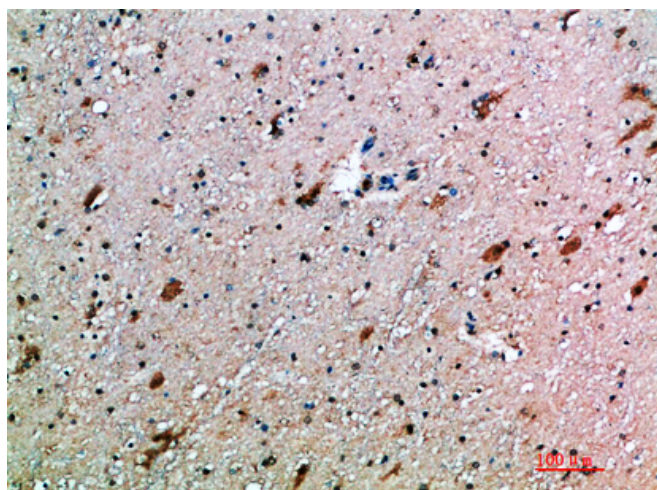
Products Images



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



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