



# CD159a/c Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-14014
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	KLRC1/KLRC2/KLRC3
<b>Protein Name</b>	NKG2-A/NKG2-B type II integral membrane protein/NKG2-C type II integral membrane protein/NKG2-E type II integral membrane protein
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from the Internal region of human KLRC1/2/3. AA range:101-150
<b>Specificity</b>	CD159a/c Polyclonal Antibody detects endogenous levels of CD159a/c protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	KLRC1; NKG2A; NKG2-A/NKG2-B type II integral membrane protein; CD159 antigen-like family member A; NK cell receptor A; NKG2-A/B-activating NK receptor; CD159a; KLRC2; NKG2C; NKG2-C type II integral membrane protein;CD159 antigen-like family member C; NK cell receptor C; NKG2-C-activating NK receptor; CD159c; KLRC3; NKG2E; NKG2-E type II integral membrane protein; NK cell receptor E; NKG2-E-activating NK receptor
<b>Observed Band</b>	25kD
<b>Cell Pathway</b>	Cell membrane ; Single-pass type II membrane protein .
<b>Tissue Specificity</b>	Predominantly expressed in NK cells (at protein level) (PubMed:9430220, PubMed:9485206, PubMed:20952657). Expressed in intraepithelial CD8-positive T cell subsets with higher frequency in gamma-delta T cells than alpha-beta T cells (at protein level) (PubMed:18064301). Expressed in memory gamma-delta T cells (at protein level) (PubMed:20952657). Restricted to a subset of memory/effector CD8-positive alpha-beta T cells (at protein level) (PubMed:12387742). Expressed in intratumoral NK and CD8-positive T cells (PubMed:30503213). Expressed in melanoma-specific cytotoxic T cell clones (at protein level) (PubMed:9485206). KLRD1-KLRC1 and KLRD1-KLRC2 are differentially expressed in NK and T cell populations, with only minor subsets expressing both receptor complexes (at protein level) (PubMed:20

**Function**

function:Plays a role as a receptor for the recognition of MHC class I HLA-E molecules by NK cells and some cytotoxic T-cells.,online information:NKG-2A,similarity:Contains 1 C-type lectin domain.,subunit:Can form disulfide-bonded heterodimer with CD94.,tissue specificity:Natural killer cells.,

**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. The protein encoded by this gene belongs to the killer cell lectin-like receptor family, also called NKG2 family, which is a group of transmembrane proteins preferentially expressed in NK cells. This family of proteins is characterized by the type II membrane orientation and the presence of a C-type lectin domain. This protein forms a complex with another family member, KLRD1/CD94, and has been implicated in the recognition of the MHC class I HLA-E molecules in NK cells. The genes of NKG2 family members form a killer cell lectin-like receptor gene cluster on chromosome 12. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed. [provide

**matters needing attention**

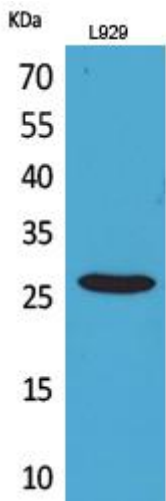
Avoid repeated freezing and thawing!

**Usage suggestions**

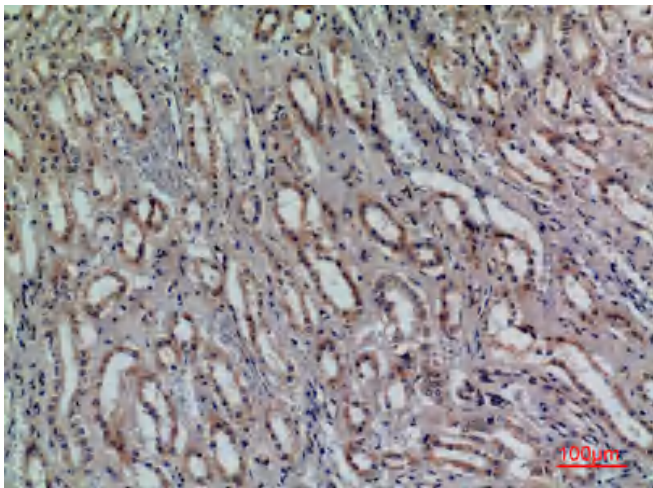
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



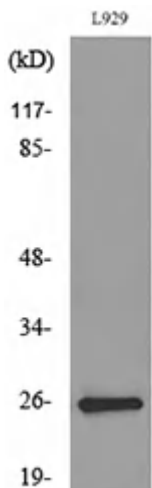
## Products Images



Western Blot analysis of L929 cells using CD159a/c Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-kidney, antibody was diluted at 1:100



Western blot analysis of lysate from L929 cells, using KLRC1/2/3 Antibody.