

Anti-NKG2C Reference Antibody (Biolegend patent anti-NKG2C)

Catalog # APR11364

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P26717
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	26159

Additional Information

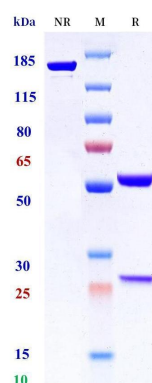
Target/Specificity	NKG2C
Expression system	CHO

Protein Information

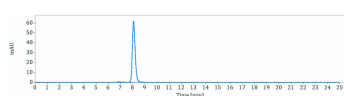
Name	KLRC2
Synonyms	NKG2C {ECO:0000303 PubMed:18083576}
Function	Immune activating receptor involved in self-nonself discrimination. In complex with KLRD1 on cytotoxic lymphocyte subsets, recognizes non-classical major histocompatibility (MHC) class Ib HLA-E loaded with signal sequence-derived peptides from non-classical MHC class Ib HLA-G molecules, likely playing a role in the generation and effector functions of adaptive natural killer (NK) cells and in maternal-fetal tolerance during pregnancy (PubMed: 30134159 , PubMed: 37264229 , PubMed: 9754572). Regulates the effector functions of terminally differentiated cytotoxic lymphocyte subsets, and in particular may play a role in adaptive NK cell response to viral infection (PubMed: 20952657 , PubMed: 21825173). Upon HLA-E-peptide binding, transmits intracellular signals via the adapter protein TYROBP/DAP12, triggering the phosphorylation of proximal signaling molecules and cell activation (PubMed: 15940674 , PubMed: 9655483).
Cellular Location	Cell membrane; Single-pass type II membrane protein
Tissue Location	Expressed in NK cell subsets, in particular in adaptive CD57-positive NK cells (at protein level) (PubMed:20952657, PubMed:21825173). Expressed in terminally differentiated cytotoxic gamma-delta T cells (at protein level) (PubMed:20952657). Expressed in alpha-beta T cells subsets (at protein level) (PubMed:20952657). KLRD1- KLRC1 and KLRD1-KLRC2 are differentially expressed within NK and T cell populations, with only minor subsets

expressing both receptor complexes (at protein level) (PubMed:20952657).

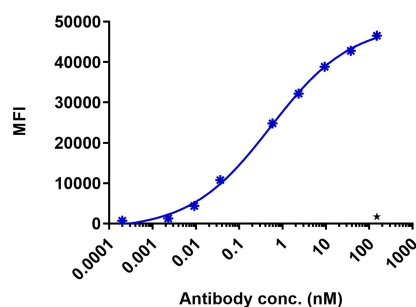
Images



Anti-NKG2C Reference Antibody (Biolegend patent anti-NKG2C) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-NKG2C Reference Antibody (Biolegend patent anti-NKG2C) is 98.91%, determined by SEC-HPLC.



HuNKG2C-huCD94-HEK293 cell line were stained with Biolegend patent anti-NKG2C and negative control protein respectively, washed and then followed by PE and analyzed with FACS, with the EC50 is 0.5326 nM.

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