

NKG2C/CD159c Protein, Cynomolgus (HEK293, His)

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| Cat. No.: | HY-P77809 |
| Synonyms: | CD159c; KLRC2; NKG2C; NK cell receptor C |
| Species: | Cynomolgus |
| Source: | HEK293 |
| Accession: | Q68VD0 (I94-L231) |
| Gene ID: | / |
| Molecular Weight: | 25-30 kDa |

PROPERTIES

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| Appearance | Solution. |
| Formulation | Supplied as a 0.22 µm filtered solution of PBS, pH 7.4. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | N/A. |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping | Shipping with dry ice. |

DESCRIPTION

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| Background | <p>NKG2C/CD159c Protein, an immune activating receptor, plays a pivotal role in self-nonsel self discrimination. Teaming up with KLRD1 on cytotoxic lymphocyte subsets, it 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. This interaction likely contributes to the generation and effector functions of adaptive natural killer (NK) cells and is implicated in maternal-fetal tolerance during pregnancy. NKG2C/CD159c also regulates the effector functions of terminally differentiated cytotoxic lymphocyte subsets, particularly in the adaptive NK cell response to viral infection. Upon binding to HLA-E-peptide complexes, NKG2C/CD159c transmits intracellular signals through the adapter protein TYROBP/DAP12, initiating the phosphorylation of proximal signaling molecules and subsequent cell activation. Forming a heterodimer with KLRD1 through disulfide linkage, the KLRD1-KLRC2 receptor complex, in association with TYROBP homodimers, is crucial for its cell surface expression. Additionally, this receptor complex can bind with low affinity to HLA-E loaded with self-peptides derived from the signal sequence of classical MHC class Ia. The multifaceted interactions and functions of NKG2C/CD159c underscore its essential role in immune responses and self-tolerance mechanisms.</p> |
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA