

## Klr1a Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P77432
<b>Synonyms:</b>	Killer cell lectin-like receptor subfamily B member 1A; NKR-P1A; Ly-55A; CD161a
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	P27811 (Q67-H227)
<b>Gene ID:</b>	17057
<b>Molecular Weight:</b>	Approximately 24-33 kDa due to the glycosylation

### PROPERTIES

<b>AA Sequence</b>	<p>           Q K P S I E K C Y V    L I Q E N L N K T T    D C S A K L E C P Q    D W L S H R D K C F            H V S H V S N T W E    E G L V D C D G K G    A T L M L I Q D Q E    E L R F L L D S I K            E K Y N S F W I G L    R Y T L P D M N W K    W I N G S T L N S D    V L K I T D D T E N            D S C A A I S G D K    V T F E S C N S D N    R W I C Q K E L Y H    E T L S N Y V G Y G            H         </p>
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>The Klr1a protein plays a pivotal role in stimulating natural killer (NK) cell cytotoxicity, contributing to the immune system's defense mechanisms. Existing as a homodimer with disulfide linkages, Klr1a is intricately involved in modulating the activity of NK cells. Its interaction with the tyrosine kinase LCK suggests a potential mechanism for signal transduction or regulatory processes that enhance NK cell cytotoxicity. Through these molecular interactions, Klr1a plays a key role in the orchestration of immune responses, particularly in the activation and regulation of NK cells, thereby contributing to the body's defense against various threats.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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