

NKp30/NCR3 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P77813
Synonyms:	CD337; LY117; NCR3; NKp30; 1C7; MALS
Species:	Human
Source:	HEK293
Accession:	O14931 (L19-T138)
Gene ID:	259197
Molecular Weight:	Approximately 20 kDa

PROPERTIES

Biological Activity	Measured by its binding ability in a functional ELISA. When immobilized Anti-NKp30 Antibody at 0.5 µg/mL (100µL/Well) on the plate, it binds Anti-NKp30 Antibody with an EC ₅₀ of 48.9 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The NKp30/NCR3 protein serves as a cell membrane receptor on natural killer (NK) cells, becoming activated upon binding to extracellular ligands such as BAG6 and NCR3LG1. This activation stimulates NK cell cytotoxicity directed towards neighboring cells producing these ligands, thereby controlling NK cell cytotoxicity against various targets, including tumor cells. The engagement of NCR3 by BAG6 not only enhances NK cell-mediated killing of myeloid dendritic cells (DCs) that did not acquire a mature phenotype but also induces the release of TNFA and IFNG by NK cells. This, in turn, promotes the maturation of myeloid dendritic cells. In its unliganded form, NKp30/NCR3 exists as a homodimer and interacts with CD3Z, NCR3LG1, and BAG6, highlighting its role as a multifaceted regulator in immune responses and NK cell-mediated cytotoxicity.
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Caution: Product has not been fully validated for medical applications. For research use only.

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