

CLEC12A/MICL Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P77903
Synonyms:	MICL; CLL-1; CLEC12A; CLL1; DCAL2; DCAL-2; CD371; CD303; CLECSF11; CLECSF7; DLEC; HECL; PRO34150; DCAL-2
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5WXQ6 (H65-A265)
Gene ID:	102143884
Molecular Weight:	38-60 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/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	<p>C-type lectin domain family 12 member A (CLEC12A) is a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. CLEC12A is a type II transmembrane protein expressed in humans by myeloid cells, including neutrophils, monocytes, plasmacytoid BDCA2⁺, and myeloid CD1⁺c/CD19⁻ dendritic cells. CLEC12A is a cell surface receptor known to regulate signaling cascades and facilitate the tyrosine phosphorylation of target MAP kinases. It interacts with PTPN6 and PTPN11, indicating its involvement in intricate cellular signaling processes. In addition, CLEC12A may regulate the inflammatory response to infectious agents through direct interaction with pathogen-derived crystals or antigens. It regulates cytokine synthesis by synergizing or antagonizing signaling pathways of a variety of receptors including TLRs and the CD40 receptor in a stimulus-dependent manner. CLEC12A is also involved in adaptive immunity through its ability to internalize antigen for routing to Major Histocompatibility complex (MHC) compartments and presentation to T cells^{[1][2]}.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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