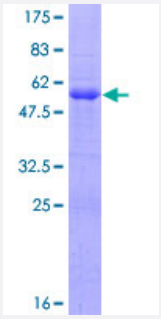
Full-Length

CD99 (Human) Recombinant Protein (P01)

Catalog # H00004267-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CD99 full-length ORF (NP_002405.1, 1 a.a. - 185 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MARGAALALLLFGLLGVLVAAPDGGFDLSDALPDNENKKPTAIPKKPSAGDDFDLGDAVVDGEN DDPRPPNPPKPMPNPNPNHPSSSGSFSDADLADGVSGGEGKGGSDGGGSHRKEGEEADAPG VIPGIVGAVVVAVAGAISSFIAYQKKKLCFKENAEQGEVDMESHRNANAEPAVQRTLLEK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	45.2
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CD99

Entrez GeneID	4267
GeneBank Accession#	NM_002414.3
Protein Accession#	NP_002405.1
Gene Name	CD99
Gene Alias	MIC2, MIC2X, MIC2Y
Gene Description	CD99 molecule
Omim ID	313470 450000
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cell surface glycoprotein involved in leukocyte migration, T-cell adhesion, ganglioside GM1 and transmembrane protein transport, and T-cell death by a caspase-independent pathway. In addition, the encoded protein may have the ability to rearrange the actin cytoskeleton and may also act as an oncosuppressor in osteosarcoma. Cyclophilin A binds to CD99 and may act as a signaling regulator of CD99. This gene is found in the pseudoautosomal region of chromosomes X and Y and escapes X-chromosome inactivation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	CD99 antigen|E2 antigen|MIC2 (monoclonal antibody 12E7)|OTTHUMP00000022840|T-cell surface glycoprotein E2|antigen identified by monoclonal 12E7, Y homolog|antigen identified by monoclonal antibodies 12E7, F21 and O13|surface antigen MIC2

Publication Reference

- Diapedesis-Induced Integrin Signaling via LFA-1 Facilitates Tissue Immunity by Inducing Intrinsic Complement C3 Expression in Immune Cells.

  Martin Kolev, Erin E West, Natalia Kunz, Daniel Chauss, E Ashley Moseman, Jubayer Rahman, Tilo Freiwald, Maria L Balmer, Jonas Lötscher, Sarah Dimeloe, Elizabeth C Rosser, Lucy R Wedderburn, Katrin D Mayer-Barber, Andrea Bohrer, Paul Lavender, Andrew Cope, Luopin Wang, Mariana J Kaplan, Niki M Moutsopoulo, Dorian McGavern, Steven M Holland, Christoph Hess, Majid Kazemian, Behdad Afzali, Claudia Kemper.

  Immunity 2020 Mar; 52(3):513.

  Application: Sub, Human, Human CD4+ T cells

Pathway

- Cell adhesion molecules (CAMs)
- Leukocyte transendothelial migration

Disease

- Arthritis
- Genetic Predisposition to Disease