Datasheet for ABIN7554682

MYO1G Protein (AA 1-1018) (His tag)

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Overview

Quantity:	1 mg
Target:	MYO1G
Protein Characteristics:	AA 1-1018
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYO1G protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant MYO1G Protein expressed in mammalian cells.
Sequence:	MEDEEGPEYG KPDFVLLDQV TMEDFMRNLQ LRFEKGRIYT YIGEVLVSVN PYQELPLYGP EAIARYQGRE LYERPPHLYA VANAAYKAMK HRSRDTCIVI SGESGAGKTE ASKHIMQYIA AVTNPSQRAE VERVKDVLLK STCVLEAFGN ARTNRNHNSS RFGKYMDINF DFKGDPIGGH IHSYLLEKSR VLKQHVGERN FHAFYQLLRG SEDKQLHELH LERNPAVYNF THQGAGLNMT VHSALDSDEQ SHQAVTEAMR VIGFSPEEVE SVHRILAAIL HLGNIEFVET EEGGLQKEGL AVAEEALVDH VAELTATPRD LVLRSLLART VASGGRELIE KGHTAAEASY ARDACAKAVY QRLFEWVVNR INSVMEPRGR DPRRDGKDTV IGVLDIYGFE VFPVNSFEQF CINYCNEKLQ QLFIQLILKQ EQEEYEREGI TWQSVEYFNN ATIVDLVERP HRGILAVLDE ACSSAGTITD RIFLQTLDMH HRHHLHYTSR QLCPTDKTME FGRDFRIKHY AGDVTYSVEG FIDKNRDFLF QDFKRLLYNS TDPTLRAMWP DGQQDITEVT KRPLTAGTLF KNSMVALVEN LASKEPFYVR CIKPNEDKVA GKLDENHCRH QVAYLGLLEN VRVRRAGFAS RQPYSRFLLR YKMTCEYTWP NHLLGSDKAA VSALLEQHGL QGDVAFGHSK LFIRSPRTLV TLEQSRARLI PIIVLLLQKA

Product Details

	WRGTLARWRC RRLRAIYTIM RWFRRHKVRA HLAELQRRFQ AARQPPLYGR DLVWPLPPAV LQPFQDTCHA LFCRWRARQL VKNIPPSDMP QIKAKVAAMG ALQGLRQDWG CRRAWARDYL SSATDNPTAS SLFAQRLKTL QDKDGFGAVL FSSHVRKVNR FHKIRNRALL LTDQHLYKLD PDRQYRVMRA VPLEAVTGLS VTSGGDQLVV LHARGQDDLV VCLHRSRPPL DNRVGELVGV LAAHCQGEGR TLEVRVSDCI PLSHRGVRRL ISVEPRPEQP EPDFRCARGS FTLLWPSR **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	MYO1G
Alternative Name:	MYO1G (MYO1G Products)
Background:	Unconventional myosin-Ig [Cleaved into: Minor histocompatibility antigen HA-2 (mHag HA-2)],FUNCTION: Unconventional myosin required during immune response for detection of rare antigen-presenting cells by regulating T-cell migration. Unconventional myosins are actin-based

Target Details

	motor molecules with ATPase activity and serve in intracellular movements. Acts as a regulator of T-cell migration by generating membrane tension, enforcing cell-intrinsic meandering search, thereby enhancing detection of rare antigens during lymph-node surveillance, enabling pathogen eradication. Also required in B-cells, where it regulates different membrane/cytoskeleton-dependent processes. Involved in Fc-gamma receptor (Fc-gamma-R) phagocytosis. {ECO:0000250|UniProtKB:Q5SUA5}., FUNCTION: [Minor histocompatibility antigen HA-2]: Constitutes the minor histocompatibility antigen HA-2. More generally, minor histocompatibility antigens (mHags) refer to immunogenic peptide which, when complexed with MHC, can generate an immune response after recognition by specific T-cells. The peptides are derived from polymorphic intracellular proteins, which are cleaved by normal pathways of antigen processing. The binding of these peptides to MHC class I or class II molecules and their expression on the cell surface can stimulate T-cell responses and thereby trigger graft rejection or graft-versus-host disease (GVHD) after hematopoietic stem cell transplantation from HLA-identical sibling donor. GVHD is a frequent complication after bone marrow transplantation (BMT), due to mismatch of minor histocompatibility antigen in HLA-matched sibling marrow transplants. HA-2 is restricted to MHC class I HLA-A*0201. {ECO:0000269|PubMed:11544309, ECO:0000305}.
Molecular Weight:	116.4 kDa
UniProt:	B0I1T2

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months