



Anti-MYO1G (aa 271-356) polyclonal antibody (DPABH-19685)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Their highly divergent tails are presumed to bind to membranous compartments, which would be moved relative to actin filaments. Precursor of 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.

Immunogen

antigen, corresponding to amino acids 271-356 (SVHRILAAIL HLGNIEFVET EEGGLQKEGL AVAEEALVDH VAEALTATPRD LVRSLLART VASGGRELIE KGHTAAEASY ARDACA) of Human Myosin 1G.

Isotype

IgG

Source/Host

Rabbit

Species Reactivity

Human

Purification

Immunogen affinity purified

Conjugate

Unconjugated

Applications

ICC/IF, IHC-P

Format	Liquid
Size	100 μ l
Buffer	pH: 7.20; Constituents: 59% PBS, 40% Glycerol
Preservative	0.02% Sodium Azide
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	MYO2G myosin IG [Homo sapiens]
Official Symbol	MYO1G
Synonyms	MYO1G; myosin IG; HA2; MHAG; unconventional myosin-Ig; myosin-Ig; minor histocompatibility antigen HA-2;
Entrez Gene ID	64005
Protein Refseq	NP_149043.2
UniProt ID	B0I1T2
Function	ATP binding; actin binding; calmodulin binding; motor activity