

Myosin 1G Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57331

Product Information

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	B011T2
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	116442

Additional Information

Gene ID	64005
Other Names	Unconventional myosin-Ig, Minor histocompatibility antigen HA-2, mHag HA-2, MYO1G, HA2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MYO1G
Synonyms	HA2
Function	Unconventional myosin required during immune response for detection of rare antigen-presenting cells by regulating T-cell migration. Unconventional myosins are actin-based 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.
Cellular Location	Cell membrane; Peripheral membrane protein. Cell projection, phagocytic cup {ECO:0000250 UniProtKB:Q5SUA5} Note=Recruited to Fc-gamma receptor (Fc-gamma-R) phagocytic cup. In T- cells, transiently accumulates in discrete areas at the plasma membrane of migrating cells or when membranes are deformed (By similarity) Localization at the membrane is not highly dependent on phosphatidylinositol 4,5-bisphosphate levels. Released from

the membrane in the presence of ATP. May be enriched in peripheral processes, such as microvilli or ruffles {ECO:0000250 | UniProtKB:Q5SUA5, ECO:0000269 | PubMed:20071333}

Tissue Location

Specifically expressed in hematopoietic cells.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.