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GIMAP5 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP6984c

Specification

GIMAP5 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q96F15

GIMAP5 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 55340

Other Names
GTPase IMAP family member 5, Immunity-associated nucleotide 4-like 1 protein, Immunity-associated nucleotide 5 protein, IAN-5, hIAN5, Immunity-associated protein 3, GIMAP5, IAN4L1, IAN5, IMAP3

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6984c was selected from the Center region of human GIMAP5. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GIMAP5 Antibody (Center) Blocking Peptide - Protein Information

Name GIMAP5

Synonyms IAN4L1, IAN5, IMAP3

Function
Plays a role in T lymphocyte development and the optimal generation of CD4/CD8 double-positive thymocytes (By similarity). Inhibitor of GSK3A, possibly by sequestering GSK3A in cytoplasmic vesicles and impairing its translocation to the nucleus. Consequently, impairs GSK3A-dependent transcriptional program and regulation of the DNA damage response occurring during T cells proliferation (PubMed:29382851). Required for the survival of peripheral T cells, natural killer (NK) and NK T-cell development and the maintenance of normal liver function (By similarity). May promote the survival of mature T lymphocytes upon cytokine withdrawal (By similarity). May

regulate Ca(2+) homeostasis by modulating lysosomal Ca(2+) stores, preventing its accumulation in the absence of T cell activation (By similarity). May play a role in mitochondrial DNA segregation in hematopoietic tissues (By similarity). Is a regulator of liver endothelial cell homeostasis (By similarity).

Cellular Location
Lysosome membrane; Single-pass type IV membrane protein. Endosome, multivesicular body membrane; Single-pass type IV membrane protein. Endosome membrane {ECO:0000250|UniProtKB:Q8K3L6}; Single-pass type IV membrane protein {ECO:0000250|UniProtKB:Q8K3L6} Note=The mitochondrial localization originally reported was observed with C-terminally tagged protein and was not confirmed in later publications.

Tissue Location
Widely expressed with high levels in lymph node and spleen (PubMed:14724691). High expression found in T lymphocytes, including CD4 and CD8-positive T-cells, and monocytes (PubMed:14724691, PubMed:29382851). Very low expression levels in B-lymphocytes (PubMed:14724691).

GIMAP5 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

GIMAP5 Antibody (Center) Blocking Peptide - Images

GIMAP5 Antibody (Center) Blocking Peptide - Background

GIMAP5 is a protein belonging to the GTP-binding superfamily and to the immuno-associated nucleotide (IAN) subfamily of nucleotide-binding proteins.

GIMAP5 Antibody (Center) Blocking Peptide - References

Shin,J.H., et.al., Genes Immun. 8 (6), 503-512 (2007)