

GIMAP3 Rabbit pAb

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Catalog # AP58947

Product Information

Application	WB
Primary Accession	Q99MI6
Reactivity	Rat
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34179
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse GIMAP3
Epitope Specificity	1-100/301
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion outer membrane; Single-pass type IV membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GIMAP3p is a murine mitochondrial membrane protein belonging to the GTP-binding superfamily and to the immuno-associated nucleotide (IAN) subfamily of nucleotide-binding proteins. The IAN/GIMAP family consists of GTP-binding proteins that share a unique primary structure and whose expression is finely regulated by T-cell receptor signals. Recent studies have shown that IAN/GIMAP family proteins crucially regulate the survival of T cells during development, selection and homeostasis, and are possibly linked to the onset of T-lymphopenia, leukemia and autoimmunity. IAN/GIMAP family proteins might also take part in mitochondrial regulation of lymphocyte apoptosis by interacting with Bcl-2 family proteins. The human GIMAP (GTPase of the immunity-associated protein) gene family includes seven functional members residing on (human) chromosome 7q36.1 and one pseudogene (hGIMAP3).

Additional Information

Gene ID	83408
Other Names	GTPase IMAP family member 3, Immunity-associated nucleotide 4 protein, IAN-4, Gimap3
Dilution	WB=1:500-2000
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.

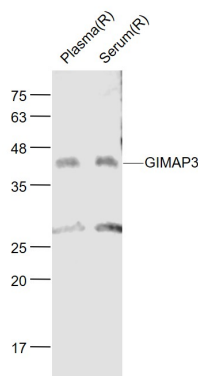
Protein Information

Name	Gimap3
Function	During thymocyte development, may support the positive selection of CD4 and CD8 T cells (PubMed: 16509771). May play a role in mitochondrial DNA segregation in hematopoietic tissues (PubMed: 25808953). Binds GTP (PubMed: 11238997).
Cellular Location	Endoplasmic reticulum membrane; Single-pass type IV membrane protein. Note=The mitochondrial localization originally reported was observed with C-terminally tagged protein and was not confirmed in later publications.
Tissue Location	Expressed in thymus (in thymocytes), spleen (in splenocytes), lymph node and, at lower levels, in lung (PubMed:16509771, PubMed:25808953). Highly expressed in T lymphocytes (PubMed:16509771).

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Images



Sample:

Plasma (Rat) at 40 ug

Serum (Rat) at 40 ug

Primary: Anti-GIMAP3 (AP58947) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 39'43 kD

Observed band size: 43 kD

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