# GIMAP1 (h): 293T Lysate: sc-115935



The Power to Question

## **BACKGROUND**

The GTPase of the immunity-associated protein (GIMAP) family of proteins include seven members that are expressed by genes residing on human chromosome 7. GIMAP proteins have been implicated in the regulation of lymphomyeloid cell survival. GIMAP1 (GTPase, IMAP family member 1), also known as IMAP1 (immunity-associated protein 1), HIMAP1 or IMAP38, is a 306 amino acid single-pass type IV membrane protein of the endoplasmic reticulum (ER) belonging to the GIMAP family. Encoded by a gene located on human chromosome 7, GIMAP1 is expressed primarily in spleen with lower levels found in lymph node. Chromosome 7 houses over 1,000 genes, comprises nearly 5% of the human genome and has been linked to osteogenesis imperfecta, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome.

# **REFERENCES**

- 1. Tsipouras, P., et al. 1983. Restriction fragment length polymorphism associated with the pro  $\alpha$  2(I) gene of human type I procollagen. Application to a family with an autosomal dominant form of osteogenesis imperfecta. J. Clin. Invest. 72: 1262-1267.
- 2. Iwasaki, S., et al. 2001. Long-term audiological feature in Pendred syndrome caused by PDS mutation. Arch. Otolaryngol. Head Neck Surg. 127: 705-708.
- 3. Stamm, O., et al. 2002. Human ortholog to mouse gene Imap38 encoding an ER-localizable G protein belongs to a gene family clustered on chromosome 7q32-36. Gene 282: 159-167.
- 4. Online Mendelian Inheritance in Man, OMIM™. 2003. Johns Hopkins University, Baltimore, MD. MIM Number: 608084. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- 5. Krücken, J., et al. 2004. Comparative analysis of the human gimap gene cluster encoding a novel GTPase family. Gene 341: 291-304.
- Reiner, O., et al. 2006. Lissencephaly 1 linking to multiple diseases: mental retardation, neurodegeneration, schizophrenia, male sterility, and more. Neuromolecular Med. 8: 547-565.
- Saunders, A., et al. 2009. Expression of GIMAP1, a GTPase of the immunityassociated protein family, is not upregulated in malaria. Malar. J. 8: 53.
- 8. Filén, J.J., et al. 2009. Quantitative proteomics reveals GIMAP family proteins 1 and 4 to be differentially regulated during human T helper cell differentiation. Mol. Cell. Proteomics 8: 32-44.

# CHROMOSOMAL LOCATION

Genetic locus: GIMAP1 (human) mapping to 7g36.1.

#### **PRODUCT**

GIMAP1 (h): 293T Lysate represents a lysate of human GIMAP1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

#### **APPLICATIONS**

GIMAP1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive GIMAP1 antibodies. Recommended use: 10-20  $\mu$ l per lane

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

## **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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