

GIMAP6 (G-16): sc-246998

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. GIMAP6 (GTPase, IMAP family member 6), also known as IAN6 (immunity-associated nucleotide 6) or IAN2 (immunity-associated nucleotide 2), is a 292 amino acid protein that exists as 2 alternatively spliced isoforms. Highly expressed in placenta, lung, spleen and lymph node, GIMAP6 is found at moderate levels in heart, kidney, digestive tract and thymus. The gene encoding GIMAP6 maps to human chromosome 7, which 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

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CHROMOSOMAL LOCATION

Genetic locus: GIMAP6 (human) mapping to 7q36.1.

SOURCE

GIMAP6 (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of GIMAP6 of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-246998 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GIMAP6 (G-16) is recommended for detection of GIMAP6 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other GIMAP family members.

GIMAP6 (G-16) is also recommended for detection of GIMAP6 in additional species, including equine and porcine.

Suitable for use as control antibody for GIMAP6 siRNA (h): sc-89898, GIMAP6 shRNA Plasmid (h): sc-89898-SH and GIMAP6 shRNA (h) Lentiviral Particles: sc-89898-V.

Molecular Weight of GIMAP6 isoforms: 33/24 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

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