**BACKGROUND**

GIMAP5 (GTPase, IMAP family member 5), also known as IAN5 (immunity-associated nucleotide 5), IAN4L1 (immunity-associated nucleotide 4-like 1 protein), IAN4, IAMP3, HIMAP3 or IROD, is a 307 amino acid single-pass type IV membrane protein of the mitochondrial outer membrane. A member of the GTP-binding superfamily and to the immuno-associated nucleotide (IAN) subfamily, GIMAP5 plays a role in T-cell survival and mitochondrial integrity. GIMAP5 is highly expressed in CD4 and CD8-positive T-cells and monocytes, as well as B-lymphocyte-derived neoplasms. GIMAP5 exists as two alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 7q36.1. Defects in the GIMAP5 gene are associated with systemic lupus erythematosus.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: GIMAP5 (human) mapping to 7q36.1.

**SOURCE**

GIMAP5 (E-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of GIMAP5 of human origin.

**PRODUCT**

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

Blocking peptide available for competition studies, sc-164475 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

GIMAP5 (E-15) is recommended for detection of GIMAP5 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.

Suitable for use as control antibody for GIMAP5 siRNA (h): sc-89711, GIMAP5 shRNA Plasmid (h): sc-89711-SH and GIMAP5 shRNA (h) Lentiviral Particles: sc-89711-V.

Molecular Weight of GIMAP5 isoforms: 35/40 kDa.

Positive Controls: LNCaP cell lysate: sc-2231, A-431 whole cell lysate: sc-2201 or Raji whole cell lysates: sc-384236.

**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-2035 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2033 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.

**STORAGE**

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

**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.

Try GIMAP5 (E-11): sc-377307, our highly recommended monoclonal alternative to GIMAP5 (E-15).