

granzyme G (N-11): sc-103532

BACKGROUND

The granzyme family of proteins belong to the larger peptidase S₁ family. Granzyme A and granzyme B are serine proteases that facilitate apoptotic signaling in cytotoxic T lymphocytes (CTL) and natural killer (NK) cells. Granzyme H localizes to cytoplasmic granules of CTLs and is important for target cell lysis in cell-mediated immune responses. Granzyme K is a serine protease localizing to the granules of NK cells and CTLs. Granzyme M is a trypsin-fold serine protease that localizes to granules of NK cells and cleaves peptide substrates after leucine, norleucine or methionine. Granzyme D is a trypsin expressed on mature CTLs that cleaves Na-CBZ-L-lysine thiobenzyl ester. Granzyme G, also known as CTL serine protease 1, MCSP-1 or CTLA-7, is a serine protease also expressed on mature CTLs. It lies downstream of granzyme C and is upregulated by IL-5 and IL-2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Gzmf (rat) mapping to 15p12.

STORAGE

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

PROTOCOLS

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

SOURCE

granzyme G (N-11) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of granzyme G of rat origin.

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-103532 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

granzyme G (N-11) is recommended for detection of granzyme G of rat 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 granzyme family members.

Molecular Weight of granzyme G: 27 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.