

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse Granzyme G in direct ELISAs and Western blots. In Western blots, approximately 5% cross-reactivity with recombinant mouse Granzyme D is observed.                                                                                                             |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 207639                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse Granzyme G<br>Ile21-Leu248<br>Accession # P13366                                                                                                                                                                      |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

Granzyme G is a member of the Granzyme family of the serine proteases found specifically in the cytotoxic granules of cytotoxic T lymphocytes (CTL) and natural killer (NK) cells (1). Together with Granzymes D, E and F, it is regulated through pregnancy and by IL-2 and IL-15 in granulated metrial gland cells (2). A human or rat counterpart of mouse Granzyme G has not been found. Like other Granzymes, mouse Granzyme G is not secreted as a zymogen but stored as a fully processed and activated enzyme in the cytoplasmic granules of CTL (3). It is synthesized as a 248 amino acid (aa) precursor with a 18 aa signal peptide and a 2 aa propeptide (3, 4).

## PRODUCT SPECIFIC NOTICES

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