

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Granzyme G in direct ELISAs and Western blots. In Western blots, approximately 5% cross-reactivity with recombinant mouse Granzyme D is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 207639
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Granzyme G Ile21-Leu248 Accession # P13366
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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).

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