

Granzyme B Monoclonal Antibody

CATALOG #:	3173-100
AMOUNT:	100 µl
LOT #:	_____
HOST:	Mouse
ISOTYPE:	IgG _{2a}
CLONE:	O2C5/F5
IMMUNOGEN:	human Granzyme B
SPECIES REACTIVITY:	Human, rat
ANTIBODY FORMULATION:	Concentrated mouse tissue culture supernatant (1 mg/ml) in PBS containing 30% glycerol, 0.1% BSA and 0.01% thimerosal.
STORAGE CONDITIONS:	Store at -20°C. For long term storage, aliquot and refreeze at -70°C. Avoid freeze/thaw cycles.

DESCRIPTION:

The Lytic enzymes of cytotoxic lymphocytes seem to be contained within lysosome-like granules found in the cytoplasm. These granules contain perforin, a membrane pore-forming protein, and a family of serine proteases (granzymes). Granzyme B, a 32 kDa protein, is a serine Aspartase associated with the granules of Natural Killer (NK) cells. Granzyme B seems to be able to elicit cell death, perhaps by activating an endogenous pathway of programmed cell death.

SPECIFICITY:

The antibody detects 35 kDa human and rat granzyme B. The antibody does not bind to Granzyme H, Granzyme A, or mouse Granzyme B.

APPLICATIONS AND USAGE:

The antibody can be used for Western blot analysis (0.5-4 µg/ml) and immunoprecipitation. However, the optimal conditions should be determined individually.

NOTE: For Research Use Only! Not to be used in humans.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies