

Datasheet for ABIN5510620

GZMB ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity:	96 tests
Target:	GZMB
Binding Specificity:	AA 21-247
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Granzyme B
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: NSO, Immunogen sequence: I21-S247
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Target Details

Target:	GZMB
Alternative Name:	Gzmb (GZMB Products)
Background:	Protein Function: This enzyme is necessary for target cell lysis in cell- mediated immune responses. It cleaves after Asp. Seems to be linked to an activation cascade of caspases

Target Details

(aspartate-specific cysteine proteases) responsible for apoptosis execution. Cleaves caspase-3, -7, -9 and 10 to give rise to active enzymes mediating apoptosis (By similarity).

Background: Granzyme B is a serine protease that in humans is encoded by the GZMB gene.

Granzyme B is expressed by cytotoxic T lymphocytes (CTL) and natural killer (NK) cells. CTL and NK cells share the remarkable ability to recognize specific infected target cells. They are thought to protect their host by inducing apoptosis of cells that bear on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein encoded by this gene is crucial for the rapid induction of target cell apoptosis by CTL in cell-mediated immune response.

Synonyms: Granzyme B(G,H),3.4.21.79,CTLA-1,Cytotoxic cell protease 1,CCP1,Fragmentin-2,Gzmb,Ctla-1, Ctla1,

Full Gene Name: Granzyme B(G,H)

Cellular Localisation: Cytoplasmic granule. Cytoplasmic granules of cytolytic T-lymphocytes and natural killer cells.

UniProt: [P04187](#)

Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#)

Application Details

Plate: Pre-coated

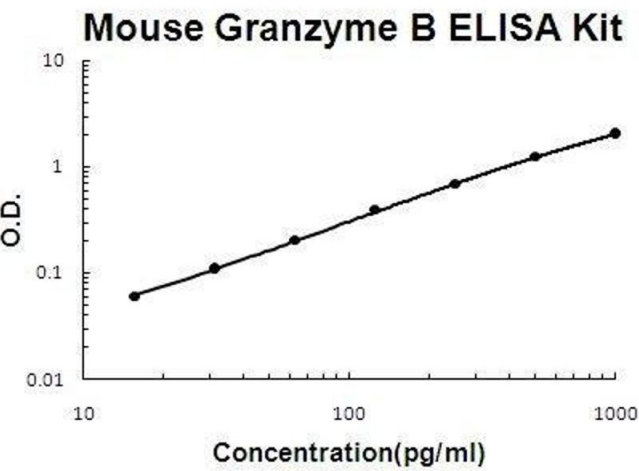
Restrictions: For Research Use only

Handling

Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

Expiry Date: 12 months



ELISA

Image 1. Mouse Granzyme B PicoKine ELISA Kit standard curve