

Datasheet for ABIN3043059
anti-GZMB antibody (C-Term)



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	GZMB
Binding Specificity:	AA 168-184, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GZMB antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Granzyme B/GZMB Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Granzyme B.
Sequence:	QEDRKCESDL RHYDST
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Granzyme B/GZMB Antibody (ABIN3043059). Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: GZMB

Alternative Name: GZMB ([GZMB Products](#))

Background: Synonyms: Granzyme B,3.4.21.79,C11,CTLA-1,Cathepsin G-like 1,CTSG1,Cytotoxic T-lymphocyte proteinase 2,Lymphocyte protease,Fragmentin-2,Granzyme-2,Human lymphocyte protein,HLP,SECT,T-cell serine protease 1-3E,GZMB,CGL1, CSPB, CTLA1, GRB, 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. Sequence Similarities: Belongs to the peptidase S1 family. Granzyme subfamily.

Molecular Weight: 55 kDa

UniProt: [P10144](#)

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

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human

1. Huang, C., Bi, E., Hu, Y., Deng, W., Tian, Z., Dong, C., Hu, Y., Sun, B. A novel NF-kappa-B binding site controls human granzyme B gene transcription. J. Immun. 176: 4173-4181, 2006. 2. Motyka, B., Korbitt, G., Pinkoski, M. J., Heibei, J. A., Caputo, A., Hobman, M., Barry, M., Shostak, I., Sawchuk, T., Holmes, C. F. B., Gauldie, J., Bleackley, R. C. Mannose 6-phosphate/insulin-like growth factor II receptor is a death receptor for granzyme B during cytotoxic T cell-induced apoptosis. Cell 103: 491-500, 2000. 3. Winrow, C. J., Pankratz, D. G., Vibat, C. R. T., Bowen, T. J., Callahan, M. A., Warren, A. J., Hilbush, B. S., Wynshaw-Boris, A., Hasel, K. W., Weaver, Z., Lockhart, D. J., Barlow, C. Aberrant recombination involving the granzyme locus occurs in Atm-/- T-cell lymphomas. Hum. Molec. Genet. 14: 2671-2684, 2005.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

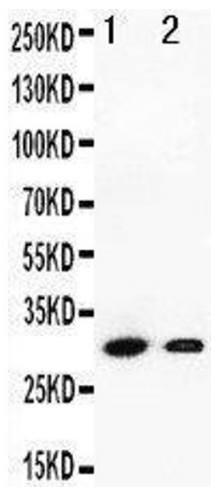
Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Anti-Granzyme B antibody, Western blotting Lane 1: SMMC Cell Lysate Lane 2: HEPA Cell Lysate