

Anti-Granzyme B Antibody [PSH14-66]

HA723664



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 28 kDa
Clone number:	PSH14-66

Description: Granzyme B (GrB) is one of the serine protease granzymes most commonly found in the granules of natural killer cells (NK cells) and cytotoxic T cells. It is secreted by these cells along with the pore forming protein perforin to mediate apoptosis in target cells. Granzyme B has also been found to be produced by a wide range of non-cytotoxic cells ranging from basophils and mast cells to smooth muscle cells. The secondary functions of granzyme B are also numerous. Granzyme B has shown to be involved in inducing inflammation by stimulating cytokine release and is also involved in extracellular matrix remodelling. Elevated levels of granzyme B are also implicated in a number of autoimmune diseases, several skin diseases, and type 1 diabetes.

Immunogen: Recombinant protein within human Granzyme B aa 1-247.

Positive control: NK-92 cell lysate, CTLL-2 cell lysate, human NK/T-cell lymphoma tissue, human spleen tissue.

Subcellular location: Secreted, Cytolytic granule.

Database links: SwissProt: P10144 Human | P04187 Mouse

Recommended Dilutions:

WB	1:100,000
IHC-P	1:500-1:5,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

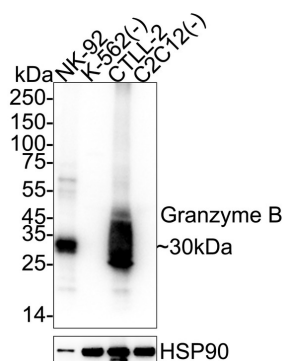


Fig1: Western blot analysis of Granzyme B on different lysates with Rabbit anti-Granzyme B antibody (HA723664) at 1/100,000 dilution.

Lane 1: NK-92 cell lysate (20 µg/Lane)

Lane 2: K-562 cell lysate (negative) (20 µg/Lane)

Lane 3: CTLL-2 cell lysate (20 µg/Lane)

Lane 4: C2C12 cell lysate (negative) (20 µg/Lane)

Predicted band size: 28 kDa

Observed band size: 30 kDa

Exposure time: 1 minute 30 seconds; ECL: K1801;
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA723664) at 1/100,000 dilution was used in primary antibody dilution (K1803) at 4 °C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

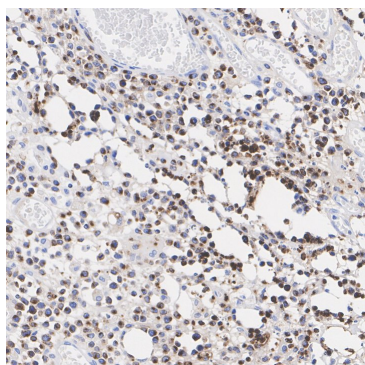


Fig2: Immunohistochemical analysis of paraffin-embedded human NK/T-cell lymphoma tissue with Rabbit anti-Granzyme B antibody (HA723664) at 1/5,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA723664) at 1/5,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

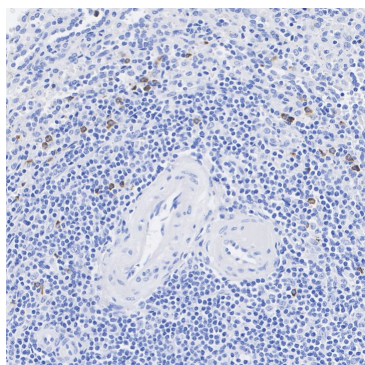


Fig3: Immunohistochemical analysis of paraffin-embedded human spleen tissue with Rabbit anti-Granzyme B antibody (HA723664) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA723664) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Gleave A et al. Granzyme B in Autoimmune Skin Disease. Biomolecules. 2023 Feb
2. Jung K et al. Granzyme B in epithelial barrier dysfunction and related skin diseases. Am J Physiol Cell Physiol. 2022 Jul

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