abcam

ab223326

Anti-GNLY/Granulysin antibody [EPR22110-128]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR22110-128
Purification technique	Affinity purification Protein A
Concentration	0.6 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	1/1000
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/600
Notes	-

Target data

See full target information GNLY

Function	Antimicrobial protein that kills intracellular pathogens. Active against a broad range of microbes, including Gram-positive and Gram-negative bacteria, fungi, and parasites. Kills Mycobacterium tuberculosis.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Granulysin also known as GNLY is a cytolytic protein with a mass of approximately 9 kDa present in the granules of cytotoxic T lymphocytes and natural killer cells. This protein expressed in activated human immune cells plays a role in immune defense by creating pores in the target cell membranes which enables other cytotoxic molecules to enter and induce cell death. Researchers often utilize Granulysin as a GNLY marker to assess immune cell activity within the body.
Biological function summary	Granulysin contributes to the body's defense against bacterial fungal and parasitic infections. It acts independently but can also collaborate with other immune components to enhance its effects. Granulysin disrupts microbial membranes owing to its affinity to negatively charged lipids leading to pathogen elimination. This mechanism plays a critical role in the human body's broader immune response.
Pathways	Granulysin operates significantly within the immune response pathway by working in concert with perforin another cytolytic protein. Together they form a potent immune mechanism aimed at eliminating infected or malignant cells. Furthermore the interferon-gamma pathway closely influences Granulysin suggesting a connection to innate and adaptive immune responses.
Associated diseases and disorders	Granulysin shows association with various conditions most notably tuberculosis and leprosy. In these diseases the GNLY protein levels reflect the body's immune activity against the pathogens. Granulysin works alongside proteins such as perforin and granzymes whose involvement suggests possible diagnostic markers for understanding the immune response in these bacterial infections.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

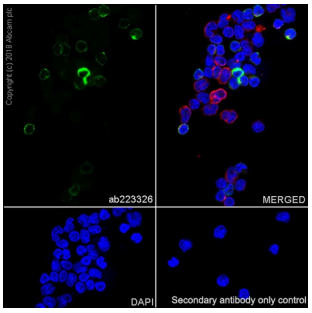
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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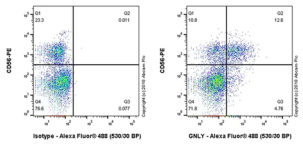
3 product images



Immunocytochemistry/ Immunofluorescence - Anti-GNLY/Granulysin antibody [EPR22110-128] (ab223326)

GNLY/Granulysin Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-GNLY/Granulysin antibody

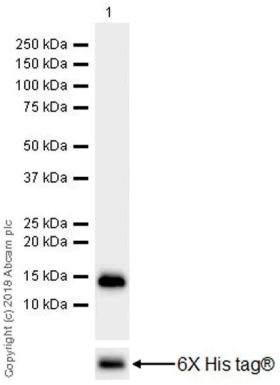
Immunocytochemistry confocal image showing cytoplasmic staining in subsets of human peripheral blood mononuclear cells. Anti-TBR2 is stained with ab223326 in a 1/100 dilution, and 2µg/ml AlexaFluor®488 Goat anti-Rabbit secondary (ab150077). Nuclear counterstaining is DAPI (blue).
The negative control is stained with ab195889 Anti-alpha Tubulin antibody Alexa Fluor® 594.



Flow Cytometry (Intracellular) - Anti-GNLY/Granulysin antibody [EPR22110-128] (ab223326)

GNLY/Granulysin Flow Cytometry (Intracellular) staining using rabbit Anti-GNLY/Granulysin antibody

Intracellular flow cytometric analysis of2% paraformaldehyde-fixed, 0.1% Tween 20-permeabilized PBMCs (human peripheral blood mononuclear cell) cells labeling GNLY/Granulysin with ab223326 at 1/600 (right) compared with a Isotype control details (ab172730) (left).
Human PBMCs were stained with PE-conjugated anti-human CD56. Cells were then fixed with 2% PFA for 10min and permeabilized with 0.1% Tween-20, followed by intracellular staining with rabbit IgG (ab172730, left) or ab223326, right).



Western blot - Anti-GNLY/Granulysin antibody [EPR22110-128] (ab223326)

Blocking and dilution buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-GNLY/Granulysin antibody [EPR22110-128] (ab223326) at 1/1000 dilution

All lanes:
His-tagged human GNLY/Granulysin recombinant protein (aa23-145) at 0.01 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 16 kDa

Observed band size: 14 kDa

Exposure time: 3s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.