abcam

ab238460

Anti-GNLY/Granulysin antibody [EPR22110-128] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR22110-128
Purification technique	Affinity purification Protein A
Concentration	0.985 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-

Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
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	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab238460 is the carrier-free version of ab223326.

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.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

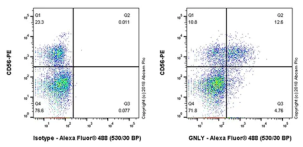
We do not recommend this combination. It is not covered by our product promise.

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.

1 product image



Flow Cytometry (Intracellular) - Anti-GNLY/Granulysin antibody [EPR22110-128] - BSA and Azide free (ab238460)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab223326).

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