abcam

ab324528

Anti-Proteinase 3/Myeloblastin antibody [EPR29801-588]

Recombinant | RabMAb

Key facts

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	EPR29801-588
Purification technique	Affinity purification Protein A
Specificity	Unsuitable for human ICC.
Concentration	0.489 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

I-ELISA

Tested

Species	Recombinant fragment - Mouse
Dilution info	250 ng/mL
Notes	-

Expected

Species	Mouse, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/200
Notes	-

Not recommended

Species	Human, Recombinant fragment - Mouse
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Species	Human
Dilution info	1/50
Notes	-

Not recommended

Species	Recombinant fragment - Mouse
Dilution info	-

Notes	-

WB

Not recommended

Species	Mouse, Human, Recombinant fragment - Mouse
Dilution info	-
Notes	-

Target data

See full target information Myeloblastin

Function	Serine protease that degrades elastin, fibronectin, laminin, vitronectin, and collagen types I, III, and IV (in vitro). By cleaving and activating receptor F2RL1/PAR-2, enhances endothelial cell barrier function and thus vascular integrity during neutrophil transendothelial migration. May play a role in neutrophil transendothelial migration, probably when associated with CD177. Triggers inflammatory processes in neutrophils by interacting with ADGRG3 upstream of F2RL1/PAR2 activation.

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

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.

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

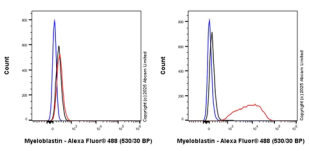
We do not recommend this combination. It is not covered by our product promise.

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.

6 product images



Flow Cytometry (Intracellular) - Anti-Proteinase 3/Myeloblastin antibody [EPR29801-588] (ab324528)

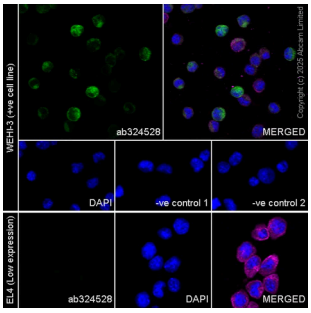
Proteinase 3/Myeloblastin Flow Cytometry (Intracellular) staining using rabbit Anti-Proteinase 3/Myeloblastin antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized K-562 (human chronic myelogenous leukemia lymphoblast, Left) / HL-60 (human acute promyelocytic leukemia promyeloblast, Right) cells labelling Proteinase 3/Myeloblastin with ab324528 at 1/50 dilution (1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control

and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Negative control: K-562 (PMID: 10572086).



Immunocytochemistry/ Immunofluorescence - Anti-Proteinase 3/Myeloblastin antibody [EPR29801-588] (ab324528)

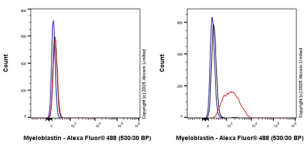
Proteinase 3/Myeloblastin Immunocytochemistry/ Immunofluorescence staining of WEHI-3 (mouse leukemia lymphoblast) using rabbit Anti-Proteinase 3/Myeloblastin antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized WEHI-3 (mouse leukemia lymphoblast) cells labelling Proteinase 3/Myeloblastin with ab324528 at 1/200 (2.445 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Confocal image showing cytoplasmic staining in WEHI-3 cell line (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).
Low expression: EL4.

ab7291 Anti-alpha Tubulin mouse monoclonal antibody was used to counterstain tubulin at 1/1000 dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

-ve control 1: ab324528 at 1/200 dilution, followed by ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) antibody at 1/1000 dilution.
-ve control 2: ab7291 at 1/1000 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution.



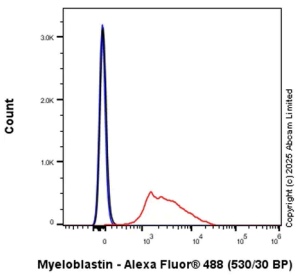
Flow Cytometry (Intracellular) - Anti-Proteinase 3/Myeloblastin antibody [EPR29801-588] (ab324528)

Proteinase 3/Myeloblastin Flow Cytometry (Intracellular) staining using rabbit Anti-Proteinase 3/Myeloblastin antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized EL4 (mouse lymphoma T lymphocyte, Left) / WEHI-3 (mouse leukemia lymphoblast, Right) cells labelling Proteinase 3/Myeloblastin with ab324528 at 1/50 dilution (1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Low expression: EL4.

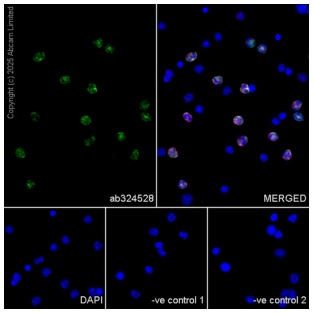


Flow Cytometry (Intracellular) - Anti-Proteinase 3/Myeloblastin antibody [EPR29801-588] (ab324528)

Proteinase 3/Myeloblastin Flow Cytometry (Intracellular) staining of Mouse bone marrow using rabbit Anti-Proteinase 3/Myeloblastin antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Mouse bone marrow cells labelling Proteinase 3/Myeloblastin with ab324528 at 1/50 dilution (1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-Proteinase 3/Myeloblastin antibody [EPR29801-588] (ab324528)

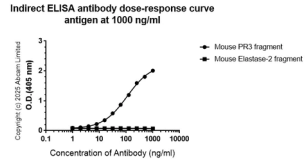
Proteinase 3/Myeloblastin Immunocytochemistry/ Immunofluorescence staining of Mouse bone marrow using rabbit Anti-Proteinase 3/Myeloblastin antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Mouse bone marrow cells labelling Proteinase 3/Myeloblastin with ab324528 at 1/200 (2.445 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Confocal image showing cytoplasmic staining in CD11b+ cells of mouse bone marrow (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab8878 Anti-CD11b Rat monoclonal antibody was used to counterstain tubulin at 1/200 dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

-ve control 1: ab324528 at 1/200 dilution, followed by ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) antibody at 1/1000 dilution.
-ve control 2: ab8878 at 1/200 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution.



Indirect ELISA - Anti-Proteinase 3/Myeloblastin antibody [EPR29801-588] (ab324528)

Indirect ELISA analysis of ab324528 at 1000-0 ng/ml. The Secondary antibody used was Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1:2500 dilution dilution.

Antigen: Mouse PR3 fragment, Mouse Elastase-2 fragment.

Antigen concentration: 1000 ng/ml

This antibody does not cross-react with Mouse Elastase-2.

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