

Product Datasheet

Granzyme B Antibody (B18.1) - BSA Free NBP1-97525

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

www.novusbio.com



technical@novusbio.com

Publications: 11

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-97525

Updated 9/9/2025 v.20.1

**Earn rewards for product
reviews and publications.**

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP1-97525



NBP1-97525

Granzyme B Antibody (B18.1) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	B18.1
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS

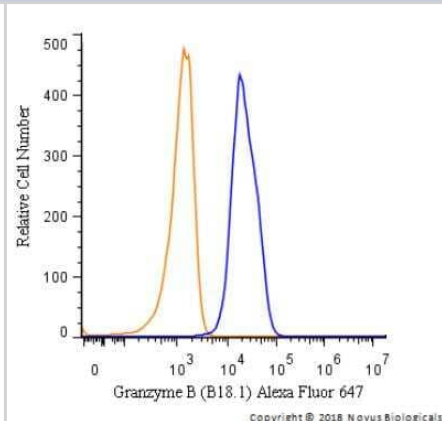
Product Description	
Description	Novus Biologicals Mouse Granzyme B Antibody (B18.1) - BSA Free (NBP1-97525) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-Granzyme B Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	3002
Gene Symbol	GZMB
Species	Human
Immunogen	Recombinant human granzyme B (aa 7-227).

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:100-1:2000, Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500

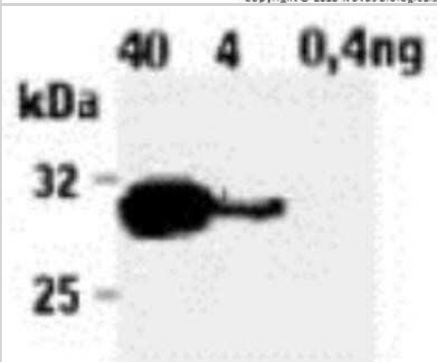


Images

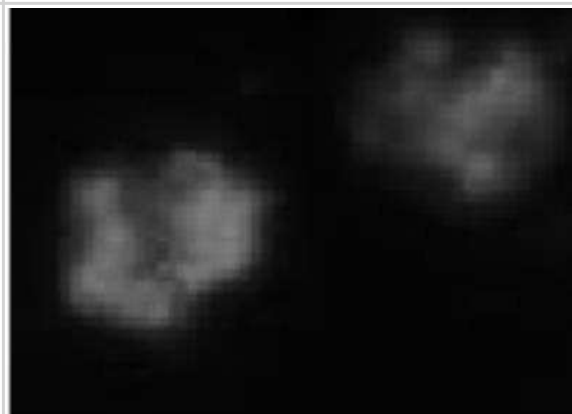
Flow Cytometry: Granzyme B Antibody (B18.1) [NBP1-97525] - An intracellular stain was performed on U937 cells with Granzyme B [B18.1] Antibody NBP1-97525AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



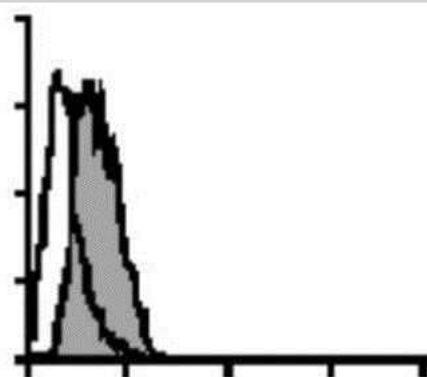
Western Blot: Granzyme B Antibody (B18.1) [NBP1-97525] - Detection of recombinant granzyme B. Granzyme B migrates as a 27 kDa species. Method: Recombinant granzyme B was resolved by SDS-PAGE under reducing conditions, transferred to nitrocellulose and probed with the monoclonal anti-granzyme B antibody B18.1 at 1ug/ml. Proteins were visualized using a peroxidase-conjugated antibody to mouse IgG (SBA) and a chemiluminescence detection system



Immunocytochemistry/Immunofluorescence: Granzyme B Antibody (B18.1) [NBP1-97525] - Human T cells were plated onto polylysine treated glass slides, fixed and permeabilized in methanol at -20oC for 5 min, then in acetone at -20oC for 30 sec. After 3 washes in PBS, 0.1% BSA, slides were incubated for 1 hr at room temperature (RT) with 20 ug/ml of B18.4 antibody in PBS, 0.1% BSA. After rinsing in PBS, a FITC-conjugated anti-mouse IgG was added for 30 min., slides washed again in PBS and visualized using a fluorescence microscope.



Flow Cytometry: Granzyme B Antibody (B18.1) [NBP1-97525] - [FITC] Detection of granzyme B in permeabilized human CD8+ T lymphocytes (filled profile). Isotype control in combination with a secondary FITC-labeled antibody is shown as control. Method: Permeabilized human T cells (5×10^5).



Publications

Jiang L, Wang YJ, Zhao J et al. Direct Tumor Killing and Immunotherapy through Anti-SerpinB9 Therapy Cell 2020-11-25 [PMID: 33242418]

Hu Q, Liao P, Li W et al. Clinical Use of Propranolol Reduces Biomarkers of Proliferation in Gastric Cancer Frontiers in Oncology 2021-04-26 [PMID: 33981600] (IF/IHC, Human)

Liao P, Song K, Zhu Z et al. Propranolol suppresses the growth of colorectal cancer through simultaneously activating autologous CD8+ T cells and inhibiting tumor AKT/MAPK pathway Clin. Pharmacol. Ther. 2020-05-17 [PMID: 32418204] (ICC/IF)

Bensch B, Ohtani T, Herati RS et al. Deep immune profiling by mass cytometry links human T and NK cell differentiation and cytotoxic molecule expression patterns.. J. Immunol. Methods. 2017-03-19 [PMID: 28322863] (FLOW, Human)

Chimote AA, Hajdu P, Sfyris AM et al. Kv1.3 channels mark functionally competent CD8+ tumor infiltrating lymphocytes in head and neck cancer. Cancer Res. 2016-11-04 [PMID: 27815390] (Human)

R Dressel et al. Granzyme-mediated cytotoxicity does not involve the mannose 6-phosphate receptors on target cells. J. Biol. Chem. 279, 20200. 2004-01-01 [PMID: 14985351]

C Berthou et al. Acquisition of granzyme B and Fas ligand proteins by human keratinocytes contributes to epidermal cell defense. J. Immunol. 159, 5293. 1997-01-01 [PMID: 9548468]

C Berthou et al. Expansion of a peripheral blood perforin+ CD8+ T-cell subset in long- term surviving lung transplanted patients. Transplant. Proc. 28, 1964. 1996-01-01 [PMID: 8658962]

MV Clement et al. Perforin and granzyme B expression is associated with severe acute rejection. Evidence for in situ localization in alveolar lymphocytes of lung-transplanted patients. Transplantation 57, 322. 1994-01-01 [PMID: 8108866]

S Legros-Maida et al. Granzyme B and perforin can be used as predictive markers of acute rejection in heart transplantation. Eur. J. Immunol. 24, 229. 1994-01-01 [PMID: 8020560]

C Berthou et al. Granzyme B and perforin lytic proteins are expressed in CD34+ peripheral blood progenitor cells mobilized by chemotherapy and granulocyte colony-stimulating factor. Blood 86, 3500. 1995-01-01 [PMID: 7579456]





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-97525

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP1-97525

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

