

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 10/23/2024 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

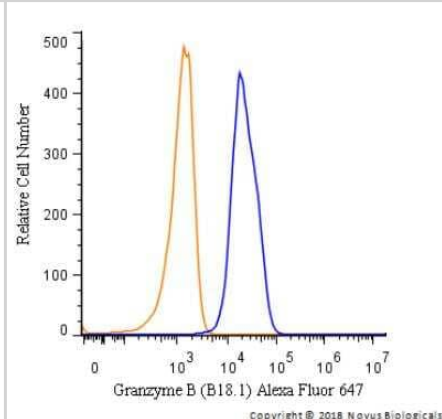
Granzyme B Antibody (B18.1) - BSA Free

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	
Host	Mouse
Gene ID	3002
Gene Symbol	GZMB
Species	Human
Immunogen	Recombinant human granzyme B (aa 7-227).
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, 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

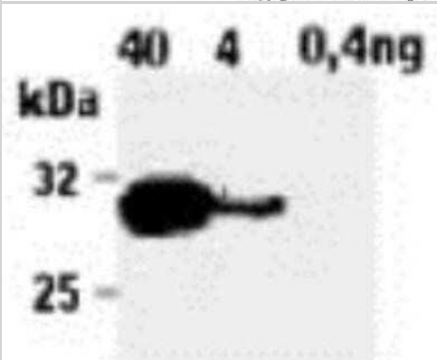


Images

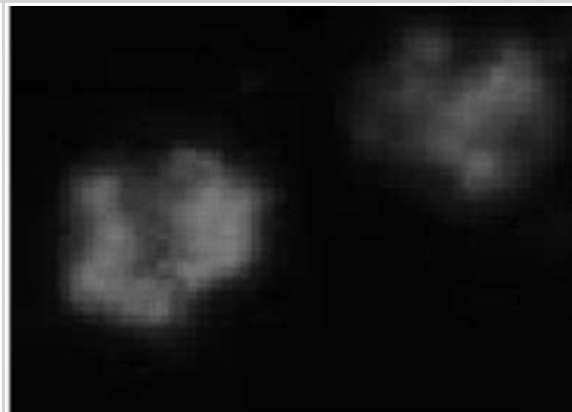
Flow Cytometry: Granzyme B Antibody (B18.1) [NBP1-97525] - An intracellular stain was performed on U937 cells with Granzyme B [B18.1] Antibody NBP1-97525AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in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



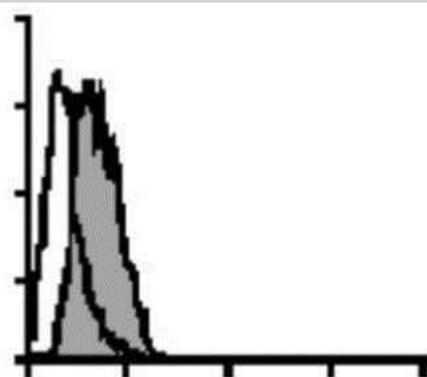
Western Blot: Granzyme B Antibody (B18.1) [NBP1-97525] - Detection of recombinant granzyme B. Granzyme B migrates as a 27 kDa species. Method: Recombinant granzyme B was resolved by SDS-PAGE under reducing conditions, transferred to nitrocellulose and probed with the monoclonal anti-granzyme B antibody 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

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-97525AF647	Granzyme B Antibody (B18.1) [Alexa Fluor® 647]

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

