

Product Datasheet

Granzyme B Antibody (orb2643685)

Description	Granzyme B is a member of the granule serine protease family stored specifically in NK cells or cytotoxic T cells. Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. Granzyme B is crucial for the rapid induction of target cell apoptosis by CTLs in the cell-mediated immune response. Granzyme B is useful as a marker in the identification of NK/T-cell lymphomas. High percentages of cytotoxic T-cells have been shown to be an unfavorable prognostic indicator in Hodgkin's Disease.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IHC-P, WB
Immunogen	A recombinant human partial protein (amino acids 73-187) was used as the immunogen for the Granzyme B antibody.
Preservatives	0.2 mg/ml with 0.1 mg/ml rAlbumin (US sourced), 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the antibody should be determined by the researcher.
Formula	0.2 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Isotype	Mouse IgG2b, kappa
Clonality	Monoclonal

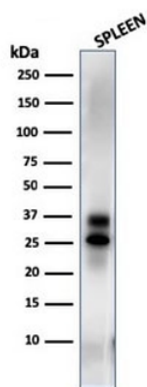
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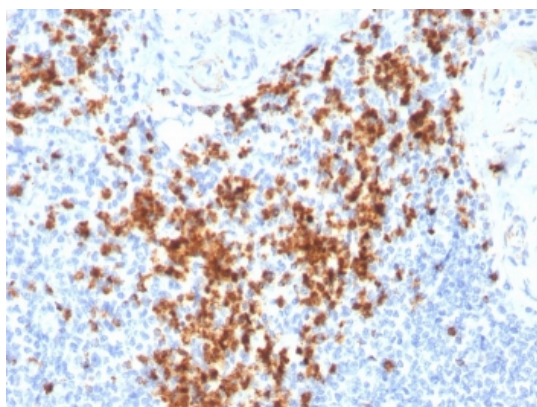
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Clone Number	GZMB/3014
Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	P10144
Hazard Information	This Granzyme B antibody is available for research use only.
Dilution Range	Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml
Expiration Date	12 months from date of receipt.



Western blot testing of human spleen lysate with Granzyme B antibody (clone GZMB/3014). Predicted molecular weight: 29-37 kDa.



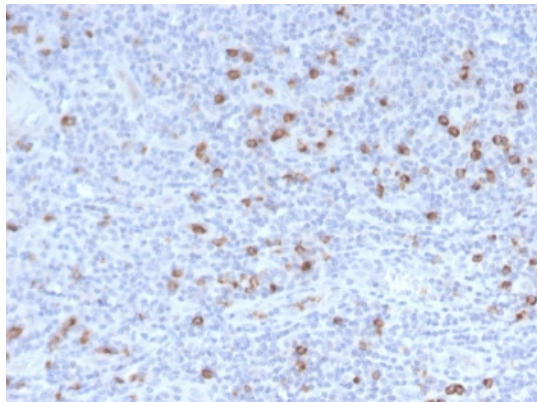
IHC staining of FFPE human spleen with Granzyme B antibody (clone GZMB/3014). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

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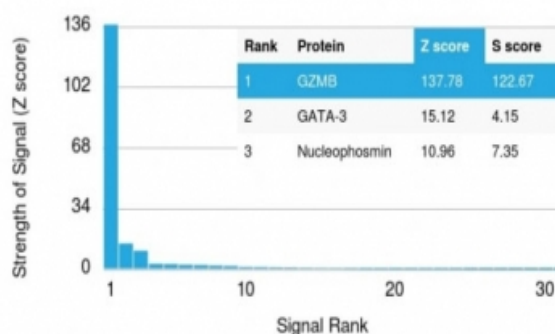
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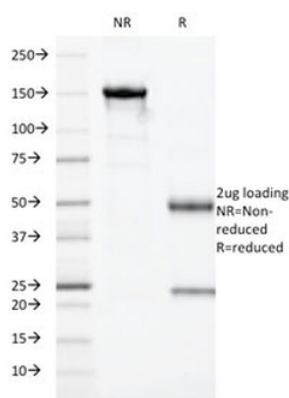


IHC staining of FFPE human tonsil with Granzyme B antibody (clone GZMB/3014). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using Granzyme B antibody (clone GZMB/3014). These results demonstrate the foremost specificity of the GZMB/3014 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free Granzyme B antibody (clone GZMB/3014) as confirmation of integrity and purity.

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