Catalog # 3002-MSM4-B1
Product Datasheet

Granzyme B (NK/T-Cell Lymphoma Marker) Antibody

Mouse Monoclonal Antibody [Clone GZMB/3014]

Catalog No	Format	Size
3002-MSM4-B1	Purified Ab conjugated to Biotin	0.5 ml at 100ug/ml

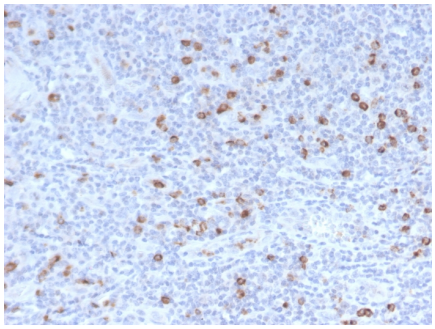
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

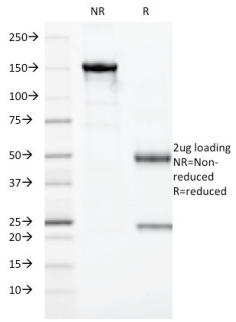
Clone	GZMB/3014
Gene Name	GZMB
Immunogen	Recombinant fragment of human GZMB protein (around aa 73-187) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b
Mol. Weight of Antigen	29-32kDa
Cellular Localization	Cytolytic granule, Cytoplasm, Secreted
Species Reactivity	Human
Positive Control	A431 cells. Human tonsil or lymph node.

**Optimal dilution for a specific application should be determined.*

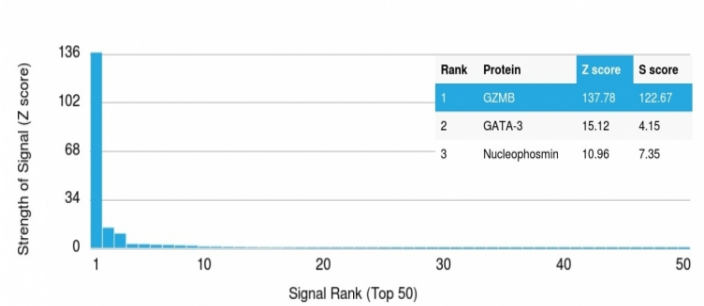
Product Images for Granzyme B (NK/T-Cell Lymphoma Marker) Antibody



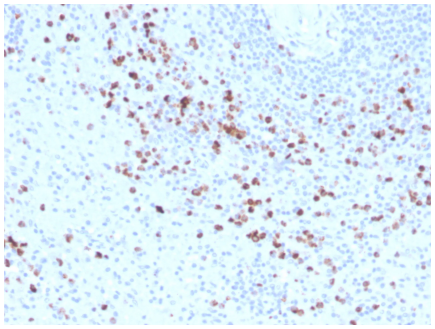
Formalin-fixed, paraffin-embedded human Tonsil stained with Granzyme B Monospecific Mouse Monoclonal Antibody (GZMB/3014).



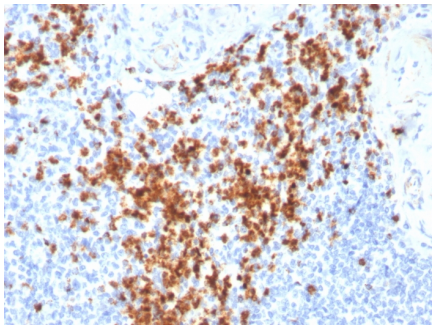
SDS-PAGE Analysis Purified Granzyme B Mouse Monoclonal Antibody (GZMB/3014). Confirmation of Integrity and Purity of Antibody.



Analysis of Protein Array containing >19,000 full-length human proteins using Granzyme B Monospecific Mouse Monoclonal Antibody (GZMB/3014) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD?s) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD?s) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human spleen stained with Biotinylated Granzyme B Mouse Monoclonal Antibody (GZMB/3014).



Formalin-fixed, paraffin-embedded human Spleen stained with Granzyme B Monospecific Mouse Monoclonal Antibody (GZMB/3014).

Specificity & Comments

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.

Supplied As

Antibody purified from Bioreactor Concentrate by Protein A/G and conjugated to Biotin. Prepared in 10mM PBS with 0.05% BSA and 0.05% azide.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Apoptosis, Autophagy, Cardiovascular, Signal Transduction

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.