

Anti-Granzyme B Antibody (4I316)

Product Details

Ig Type:	Mouse IgG2b
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4I316
Purification:	Protein A

Applications

Verified Activity:	1. Immunochemical staining of human Granzyme B in human tonsil with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).
	2. Immunochemical staining of human Granzyme B in human spleen with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).
	3. Immunochemical staining of human Granzyme B in human lymph node with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).
Application:	ELISA,IHC-P
Recommended	ELISA: 1:1000-1:2000; IHC-P: 1:50-1:200

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human Granzyme B protein (TMPY-00817)
Antigen Species:	Human
Biology Area:	Serine Proteases and Regulators

Research Background

Granzyme B, also known as GZMB, is the most prominent member of the granzyme family of cell death-inducing serine proteases expressed in the granules of cytotoxic T lymphocytes (CTLs) and NK cells. Granzyme B enters the target cells depending on another membrane-binding granule protein, perforin, results in the activation of effector caspases and mitochondrial depolarization through caspase-dependent and -independent pathways, and consequently induces rapid cell apoptosis. Over 3 substrates of GZMB have been identified including the key substrate caspase-3, ICAD, and Bid. GZMB is suggested to protect the host by lysing cells bearing on their surface 'nonself' antigens such as bacterial and viral infected-cells and tumor cells and accordingly plays an essential role in immunosurveillance.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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