

Datasheet for ABIN7654666
anti-GZMB antibody (AA 73-187) (CF®647)



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Overview

Quantity:	100 µL
Target:	GZMB
Binding Specificity:	AA 73-187
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GZMB antibody is conjugated to CF®647
Application:	Please inquire

Product Details

Purpose:	Granzyme B (NK/T-Cell Lymphoma Marker) (GZMB/2403), CF647 conjugate
Immunogen:	Recombinant fragment of human GZMB protein (around aa 73-187)
Clone:	GZMB-2403
Isotype:	IgG2b
Characteristics:	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

Product Details

shown to be an unfavorable prognostic indicator in Hodgkin's Disease. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	GZMB
Alternative Name:	Granzyme B
Background:	Synonyms: Cathepsin G-like 1, CCPI, CGL1, CSPB, CTLA-1, CTSG1, Cytotoxic serine protease B, Cytotoxic T lymphocyte associated serine esterase 1, Cytotoxic T-lymphocyte proteinase 2, Fragmentin-2, Granzyme B, Granzyme-2, GRB, Gzmb, Human lymphocyte protein (Hlp), Lymphocyte protease, SECT, T-cell serine protease 1-3E Gene Symbol: GZMB Tissue Expression: NK cells T-cells
Molecular Weight:	29-32 kDa
Gene ID:	3002
UniProt:	P10144
Pathways:	Apoptosis, Caspase Cascade in Apoptosis

Application Details

Application Notes:	For coating for ELISA, order Ab without BSA. Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Optimal dilution and staining procedure for a specific application should be determined by user. Recommended starting concentrations for titration are 1-2 µg/mL for most applications, or 1 µg/million cells/100 µL for flow cytometry
Comment:	Positive Control: A431 cells. Tonsil, Spleen or Hodgkin's Lymphoma
Restrictions:	For Research Use only

Handling

Format:	Liquid
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Handling

Concentration:	0.1 mg/mL
Buffer:	PBS, 0.1 % BSA, 0.05 % azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Protect from light
Storage:	4 °C
Storage Comment:	Stable at room temperature or 37°C for 7 days. Protect from light Store at 2 to 8°C. Protect fluorescent conjugates from light
Expiry Date:	24 months