ARG62994
anti-Granzyme B antibody [CLB-GB11]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [CLB-GB11] recognizes Granzyme B
Tested Reactivity	Hu, NHuPrm
Tested Application	FACS
Specificity	The clone CLB-GB11 recognizes granzyme B, a 31 kDa serine protease expressed in activated Tc cells and NK cells.
Host	Mouse
Clonality	Monoclonal
Clone	CLB-GB11
Isotype	IgG1
Target Name	Granzyme B
Species	Human
Immunogen	Human NK cell line YT-INDY-derived granzyme B.
Conjugation	Un-conjugated
Alternate Names	EC 3.4.21.79; CTLA-1; CSP-B; Granzyme B; CTLA1; CCPI; CGL-1; CGL1; Cytotoxic T-lymphocyte proteinase 2; T-cell serine protease 1-3E; HLP; CTSGL1; in-2; Cathepsin G-like 1; SECT; Granzyme-2; Human lymphocyte protein; C11; CSPB; Lymphocyte protease

Application Instructions

Application table

Application	Dilution
FACS	1 - 4 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from cell culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	TBS (pH 8.0) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

	before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 3002 Human Swiss-port # P10144 Human
Gene Symbol	GZMB
Gene Full Name	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)
Background	Granzyme B is a member of the granzyme subfamily of proteins, part of the peptidase S1 family of serine proteases. The encoded preproprotein is secreted by natural killer (NK) cells and cytotoxic T lymphocytes (CTLs) and proteolytically processed to generate the active protease, which induces target cell apoptosis. This protein also processes cytokines and degrades extracellular matrix proteins, and these roles are implicated in chronic inflammation and wound healing. Expression of this gene may be elevated in human patients with cardiac fibrosis. [provided by RefSeq, Sep 2016]
Function	Granzyme B is necessary for target cell lysis in cell-mediated immune responses. It cleaves after Asp. Seems to be linked to an activation cascade of caspases (aspartate-specific cysteine proteases) responsible for apoptosis execution. Cleaves caspase-3, -7, -9 and 10 to give rise to active enzymes mediating apoptosis. [UniProt]
Highlight	Related products: Granzyme B antibodies; Granzyme B ELISA Kits; Anti-Mouse IgG secondary antibodies; Related news: Examining CTL/NK-mediated cytotoxicity by ELISA Anti-SerpinB9 therapy, a new strategy for cancer therapy
Research Area	Cell Biology and Cellular Response antibody; Cell Death antibody; Immune System antibody
Calculated Mw	28 kDa