

ARG11035 anti-Granzyme B antibody [B18.1]

Package: 25 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [B18.1] recognizes Granzyme B
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-Fr, IHC-P, IP, WB
Host	Mouse
Clonality	Monoclonal
Clone	B18.1
Isotype	IgG2a
Target Name	Granzyme B
Species	Human
Immunogen	Recombinant protein corresponding to aa. 7-227 of Human 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; CTSG1; in-2; Cathepsin G-like 1; SECT; Granzyme-2; Human lymphocyte protein; C11; CSPB; Lymphocyte protease

Application Instructions

Application table	Application	Dilution
	FACS	Assay-dependent
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	IHC-P	Assay-dependent
	IP	Assay-dependent
	WB	Assay-dependent
	Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

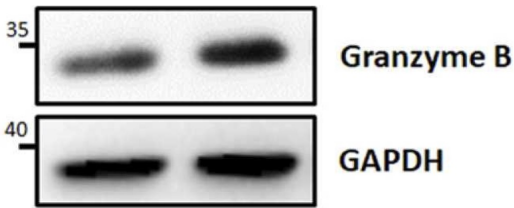
Form	Liquid
Purification	Purified
Purity	> 95% (by SDS-PAGE)
Buffer	PBS and 0.02% Sodium azide.

Preservative	0.02% Sodium azide
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

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
Calculated Mw	28 kDa

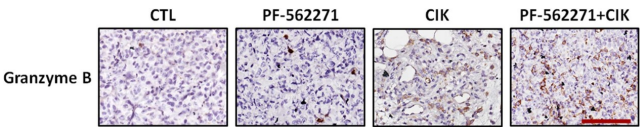
Images



ARG11035 anti-Granzyme B antibody [B18.1] WB image

Western blot: Cytokine-induced killer cell stained with ARG11035 anti-Granzyme B antibody [B18.1].

From Cheng-Che Wu et al. Biomed Pharmacother. (2023), [doi: 10.1016/j.biopha.2023.114732](#), Fig. 3G.



ARG11035 anti-Granzyme B antibody [B18.1] IHC-P image

Immunohistochemistry: Mouse triple-negative breast cancer tumor stained with ARG11035 anti-Granzyme B antibody [B18.1].

From Cheng-Che Wu et al. Biomed Pharmacother. (2023), [doi: 10.1016/j.biopha.2023.114732](#), Fig. 6.