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Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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## Mouse Monoclonal Antibody to Granzyme B

CLX441AP

<b>Size:</b>	0.1 mg
<b>Clone:</b>	CLB-GB11
<b>Isotype:</b>	Mouse IgG1
<b>Immunogen:</b>	Human NK cell line YT-INDY-derived granzyme B.
<b>Species Reactivity:</b>	Human, Non-Human Primates
<b>Application:</b>	Flow Cytometry
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography.
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0.
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Background:</b>	Granzyme B is a serine protease that is expressed in cytoplasmic granules of cytotoxic T lymphocytes and NK cells. Vectorial secretion of perforin and granzymes is responsible for their granule-mediated cytotoxicity. Granzyme B plays a pivotal role in the induction of apoptosis in the target cells by activation of caspases. Moreover, granzyme B was reported to cleave directly alpha-tubulin, leading to perturbation of microtubule networks during the induced cell death.

*Continued Overleaf.....*

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**References:**

- \*Kummer JA, Wever PC, Kamp AM, ten Berge IJ, Hack CE, Weening JJ: Expression of granzyme A and B proteins by cytotoxic lymphocytes involved in acute renal allograft rejection. *Kidney Int.* 1995 Jan;47(1):70-7.
- \*Kummer JA, Kamp AM, Tadema TM, Vos W, Meijer CJ, Hack CE: Localization and identification of granzymes A and B-expressing cells in normal human lymphoid tissue and peripheral blood. *Clin Exp Immunol.* 1995 Apr;100(1):164-72.
- \*Martin P, Pardo J, Schill N, Joeckel L, Berg M, Froelich CJ, Wallich R, Simon MM: Granzyme B-induced and caspase 3-dependent cleavage of gelsolin by mouse cytotoxic T cells modifies cytoskeleton dynamics. *J Biol Chem.* 2010 Apr 15. [Epub ahead of print]
- \*Spaeny-Dekking EH, Hanna WL, Wolbink AM, Wever PC, Kummer JA, Swaak AJ, Middeldorp JM, Huisman HG, Froelich CJ, Hack CE: Extracellular granzymes A and B in humans: detection of native species during CTL responses in vitro and in vivo. *J Immunol.* 1998 Apr 1;160(7):3610-6.
- \*Tak PP, Spaeny-Dekking L, Kraan MC, Breedveld FC, Froelich CJ, Hack CE: The levels of soluble granzyme A and B are elevated in plasma and synovial fluid of patients with rheumatoid arthritis (RA). *Clin Exp Immunol.* 1999 May;116(2):366-70.
- \*Rissoan MC, Duhon T, Bridon JM, Bendriss-Vermare N, Péronne C, de Saint Vis B, Briere F, Bates EE: Subtractive hybridization reveals the expression of immunoglobulin-like transcript 7, Eph-B1, granzyme B, and 3 novel transcripts in human plasmacytoid dendritic cells. *Blood.* 2002 Nov 1;100(9):3295-303.
- \*Sun Y, Schmitz JE, Acierno PM, Santra S, Subbramanian RA, Barouch DH, Gorgone DA, Lifton MA, Beaudry KR, Manson K, Philippon V, Xu L, Maecker HT, Mascola JR, Panicali D, Nabel GJ, Letvin NL: Dysfunction of simian immunodeficiency virus/simian human immunodeficiency virus-induced IL-2 expression by central memory CD4+ T lymphocytes. *J Immunol.* 2005 Apr 15;174(8):4753-60.

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