

Biotin anti-human Granulysin Antibody

Catalog# / Size	526103 / 50 µg 526104 / 500 µg
Clone	DH10
Regulatory Status	RUO
Other Names	GNLY, 519, LAG2, NKG5, LAG-2, D2S69E, TLA519
Isotype	Mouse IgG1, κ
Description	<p>Granulysin is a cytolytic protein present in granules of human natural killer (NK) cells and activated cytotoxic T lymphocytes (CTLs). Granulysin is synthesized as a 15 kD precursor, which is then cleaved at both the amino- and carboxy-termini into a 9 kD activated form.</p> <p>The 9 kD granulysin is released into the intercellular space between target and effector cells via a granule exocytosis pathway. The 9 kD granulysin is a chemoattractant for T lymphocytes, monocytes, and other inflammatory cells and activates the expression of a number of cytokines, including RANTES, MCP-1, MCP-3, MIP-1α, IL-1, IL-6, IL-10 and IFN-α.</p> <p>High serum levels of granulysin are associated with cytotoxic T cell and NK cell activity, and may thus represent a soluble biomarker for host-cellular immune responses. Serum granulysin has also been proposed as a biomarker for the Th1/Th2 balance. At the cellular level, granulysin may serve as a favorable prognostic marker for certain types of cancer.</p>

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant 9 kD granulysin
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	ELISA Detection - Quality tested Neut. IP - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by ELISA assay . A concentration of 1 µg/µl of the detection antibody was utilized to generate the example standard curve. It is recommended that the end-user titrate each lot of reagents for optimal performance.
Application Notes	<p>ELISA Detection: To measure human granulysin, this antibody can be used as a detection antibody in sandwich ELISA format and paired with the purified DH2 antibody (Cat. No. 348007) as the capture antibody.</p> <p>Additional reported applications (for the relevant formats) include: neutralization¹ and immunoprecipitation¹.</p> <p>Note: For testing human granulysin in serum, plasma or cell culture supernatant, LEGEND MAX™ Human Granulysin ELISA Kit with Pre-coated Plates (Cat. No. 438007 & 438008) are specially developed and recommended.</p>
Application References	1. Tewari P, <i>et al.</i> 2010. <i>Blood</i> . 116:3465. (Neut, IP)
(PubMed link indicates BioLegend citation)	

RRID AB_2563603 (BioLegend Cat. No. 526103)
AB_2563604 (BioLegend Cat. No. 526104)

Antigen Details

Structure	Saposin-like protein family of lipid binding protein, 9 kD and 15 kD
Distribution	NK cells, cytolytic T cells
Function	Cytolytic against bacteria, fungi, parasite and tumor cells; chemoattract inflammatory cells
Cell Type	Neutrophils, NK cells, T cells
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Immunology
Molecular Family	Cytokines/Chemokines
Antigen References	1. Hanson DA, <i>et al.</i> 1999. <i>Mol. Immunol.</i> 36:413. 2. Spada FM, <i>et al.</i> 2000. <i>J. Exp. Med.</i> 191:937. 3. Kalb ML, <i>et al.</i> 2012. <i>J. Immunol.</i> 188:1583.
Gene ID	10578

Related Protocols

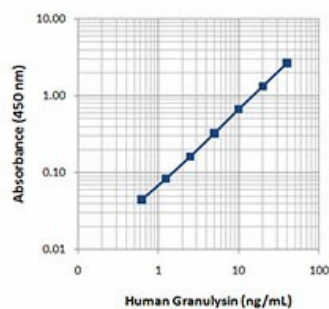
[Active Protocols: Sandwich ELISA - Video](#)

[Sandwich ELISA Protocol](#)

Other Formats

Biotin anti-human Granulysin

Product Data



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587

