

Mouse Granzyme B Monoclonal Antibody | anti-GZMB antibody

Granzyme B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA311986	Mouse	Human, Mouse, Rat	Immunohistochemistry, Immunofluorescence, Immunoprecipitation, Western Blot

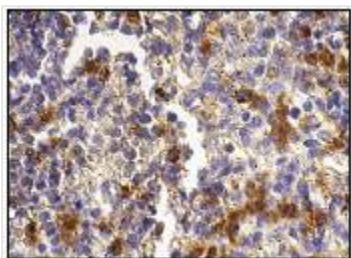
PRODUCT SYNONYMS

Granzyme B; Monoclonal Antibody; Granzyme B Antibody; C11 antibody; Cathepsin G like 1 antibody; Cathepsin G-like 1 antibody; CCPI antibody; CGL 1 antibody; CGL1 antibody; CSP B antibody; CSPB antibody; CTLA-1 antibody; CTLA1 antibody; CTSG1 antibody; Cytotoxic serine protease B antibody; Cytotoxic T lymphocyte associated serine esterase 1 antibody; Cytotoxic T lymphocyte proteinase 2 antibody; Cytotoxic T-lymphocyte proteinase 2 antibody; Fragmentin 2 antibody; Fragmentin-2 antibody; GRAB_HUMAN antibody; Granzyme 2 antibody; Granzyme B (granzyme 2; cytotoxic T lymphocyte associated serine esterase 1) antibody; Granzyme B antibody; Granzyme-2 antibody; GranzymeB antibody; GRB antibody; Gzmb antibody; Hlp antibody; Human lymphocyte protein antibody; Lymphocyte protease antibody; Protease; serine; B antibody; SECT antibody; T cell serine protease 1-3E antibody; T-cell serine protease 1-3E antibody; anti-GZMB antibody

PRODUCT SPECIFICATIONS

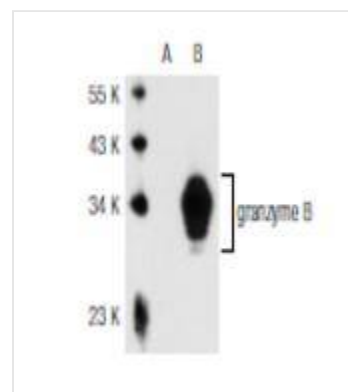
Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	4G9
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-GZMB antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), IP (Immunoprecipitation), WB (Western Blot)
Immunogen	Amino acids 1-247 representing full length granzyme B of human origin.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



Application Data

Immunoperoxidase staining of formalin fixed, paraffin-embedded human spleen tissue showing cytoplasmic staining of cells in red pulp.



WB (Western Blot)

Western blot analysis of granzyme B expression in non-transfected (A) and human granzyme B transfected (B)293T whole cell lysates.

ADDITIONAL INFORMATION

Related Product Information for anti-GZMB antibody	Granzyme A and granzyme B are serine proteases that mediate apoptotic signaling in cytotoxic T lymphocytes (CTL) and natural killer (NK) cells. Both granzyme A and granzyme B are synthesized as inactive proenzymes, and they are stored within cytolytic granules and released by effector cells during degranulation. In activated CTLs, granzyme A and granzyme B are processed and activated by cathepsin C, and they then function to induce apoptosis by two distinct pathways. Granzyme B proteolytically cleaves and activates members of the caspase family of cysteine proteases, including caspase-3, caspase-6, caspase-7 and caspase-9. When cleaved, these caspases assemble into active holoenzymes that then mediate apoptosis through a defined proteolytic cascade involving nuclear lamins and PARP (poly ADP ribose polymerase). Granzyme A mediates the activation of apoptosis by inducing single-strand DNA breaks, membrane perturbation and nuclear condensations in an alternative pathway that is independent from caspase activation or the caspase proteolytic cascade.
Product Categories/Family for anti-GZMB antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	221625528
NCBI GeneID	3002
NCBI Accession #	NP_004122.2
NCBI GenBank Nucleotide #	NM_004131.4
UniProt Accession #	P10144; Q8N1D2; Q9UCC1
Molecular Weight	27,716 Da
NCBI Official Full Name	granzyme B
NCBI Official Synonym Full Names	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)
NCBI Official Symbol	GZMB
NCBI Official Synonym Symbols	HLP; CCPI; CGL1; CSPB; SECT; CGL-1; CSP-B; CTLA1; CTSG1
NCBI Protein Information	granzyme B; C11; CTLA-1; fragmentin 2; fragmentin-2; cathepsin G-like 1; human lymphocyte protein; T-cell serine protease 1-3E; cytotoxic serine protease B; cytotoxic T-lymphocyte proteinase 2
UniProt Protein Name	Granzyme B
UniProt Gene Name	GZMB
UniProt Synonym Gene Names	CGL1; CSPB; CTLA1; GRB; CTSG1; Lymphocyte protease; HLP
UniProt Entry Name	GRAB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.