



Granzyme B Monoclonal Antibody

Catalog No	YP-mAb-10805
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	GZMB CGL1 CSPB CTLA1 GRB
Protein Name	Granzyme B (EC 3.4.21.79) (C11) (CTLA-1) (Cathepsin G-like 1) (CTSG1) (Cytotoxic T-lymphocyte proteinase 2) (Lymphocyte protease) (Fragmentin-2) (Granzyme-2) (Human lymphocyte protein) (HLP) (SECT) (
Immunogen	Synthesized peptide derived from human Granzyme B Monoclonal AA range: 81-130
Specificity	This antibody detects endogenous levels of Granzyme B.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Granzyme B (EC 3.4.21.79;C11;CTLA-1;Cathepsin G-like 1;CTSG1;Cytotoxic T-lymphocyte proteinase 2;Lymphocyte protease;Fragmentin-2;Granzyme-2;Human lymphocyte protein;HLP;SECT;T-cell serine protease 1-3E)
Observed Band	38kD
Cell Pathway	Secreted . Cytolytic granule . Delivered into the target cell by perforin (PubMed:20038786). .
Tissue Specificity	Breast carcinoma,Large granular lymphocyte leukemia,Pancreas,
Function	catalytic activity:Preferential cleavage: -Asp- -Xaa- >> -Asn- -Xaa- > -Met- -Xaa-, -Ser- -Xaa-.,function:This enzyme 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.,induction:By staphylococcal enterotoxin A (SEA) in peripheral blood leukocytes.,similarity:Belongs to the peptidase S1 family.,similarity:Belongs to the peptidase S1 family. Granzyme subfamily.,similarity:Contains 1 peptidase S1 domain.,subcellular location:Cytoplasmic granules of cytolytic T-lymphocytes and natural killer cells.,



Background

This gene encodes 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],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

Western Blot analysis of various cells using Granzyme B Monoclonal Antibody

