

Product datasheet for **CF505931**

Granzyme B (GZMB) Mouse Monoclonal Antibody [Clone ID: OTI4E4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4E4
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, IF 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 21-247 of human GZMB(NP_004122) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	25.5 kDa
Gene Name:	granzyme B
Database Link:	NP_004122 Entrez Gene 3002 Human P10144



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Background:

Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein encoded by this gene is crucial for the rapid induction of target cell apoptosis by CTL in cell-mediated immune response. [provided by RefSeq, Jul 2008]

Synonyms:

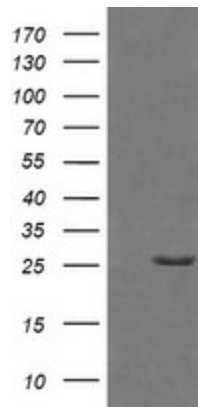
C11; CCPI; CGL-1; CGL1; CSP-B; CSPB; CTLA1; CTSL1; HLP; SECT

Protein Families:

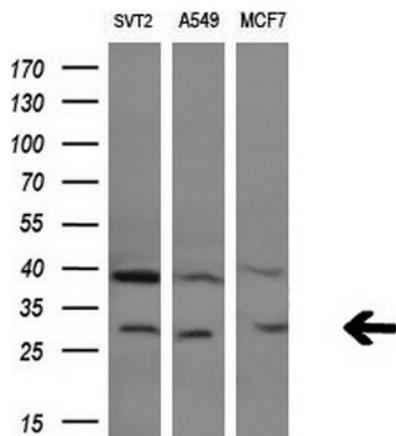
Druggable Genome, Protease

Protein Pathways:

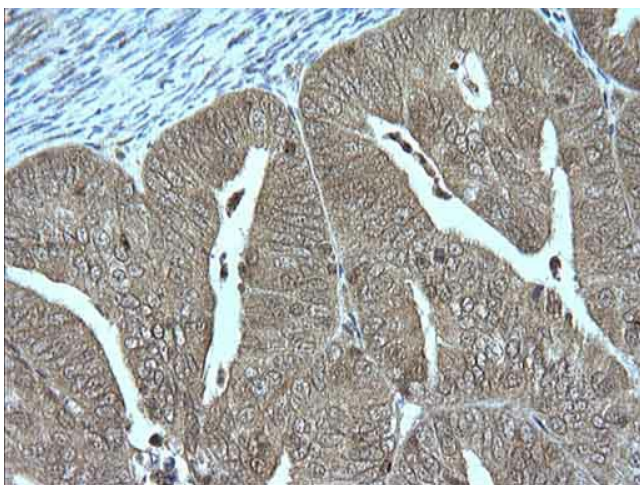
Allograft rejection, Autoimmune thyroid disease, Graft-versus-host disease, Natural killer cell mediated cytotoxicity, Type I diabetes mellitus

Product images:


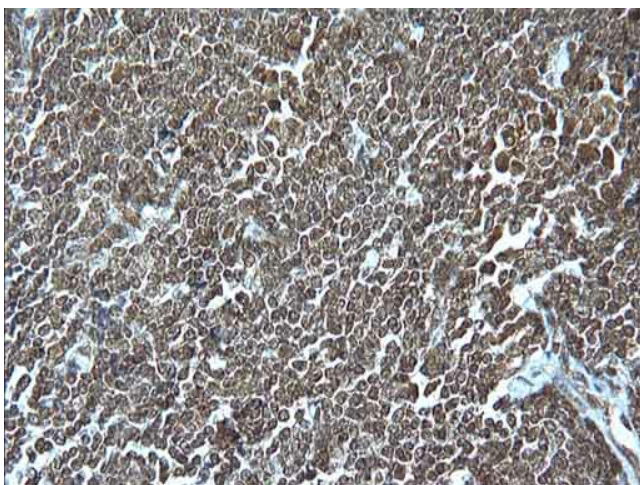
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GZMB ([RC206495], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GZMB. Positive lysates [LY401332] (100ug) and [LC401332] (20ug) can be purchased separately from OriGene.



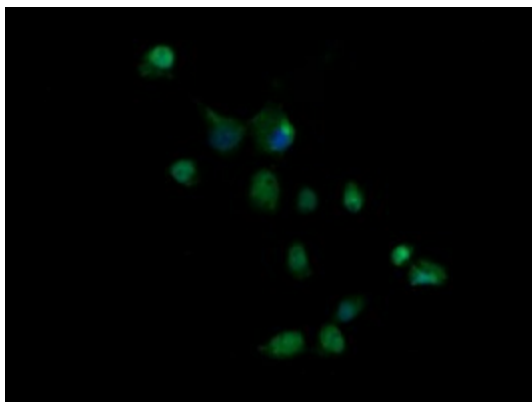
Western blot analysis of extracts (10ug) from 3 different cell lines by using anti-GZMB monoclonal antibody (1:200).



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-GZMB mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-GZMB mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-GZMB mouse monoclonal antibody ([TA505931]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY GZMB ([RC206495]).