

## Product datasheet

### Anti-Granzyme B antibody [EPR8260] ab134933

Recombinant RabMAb

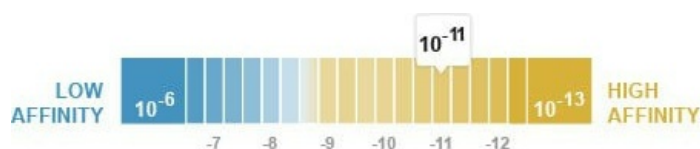
★★★★★ [2 Abreviews](#) [14 References](#) [7 Images](#)

#### Overview

<b>Product name</b>	Anti-Granzyme B antibody [EPR8260]
<b>Description</b>	Rabbit monoclonal [EPR8260] to Granzyme B
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IHC-P: Human Hodgkins lymphoma and Human tonsil tissues WB: KARPAS-299, SR whole cell lysates; Flow cyt: No-GFP-CD16.NK-92 cells
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 7.80 x 10 <sup>-11</sup> M



[Learn more about K<sub>D</sub>](#)

<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR8260
<b>Isotype</b>	IgG

## Applications

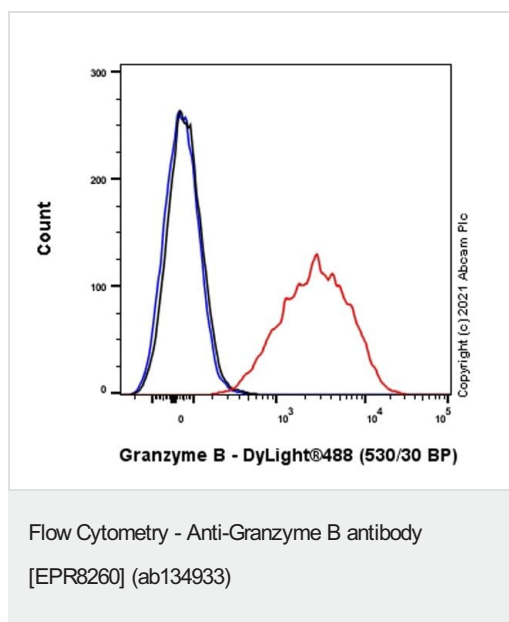
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab134933 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 28 kDa.
IHC-P	★★★★★ (2)	1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. For antigen retrieval: heat up to 98 degrees C, below boiling, and then let cool for 10-20 min. Use of an HRP/AP polymerized secondary antibody is recommended.  See <a href="#">IHC antigen retrieval protocols</a> .
Flow Cyt		1/100.

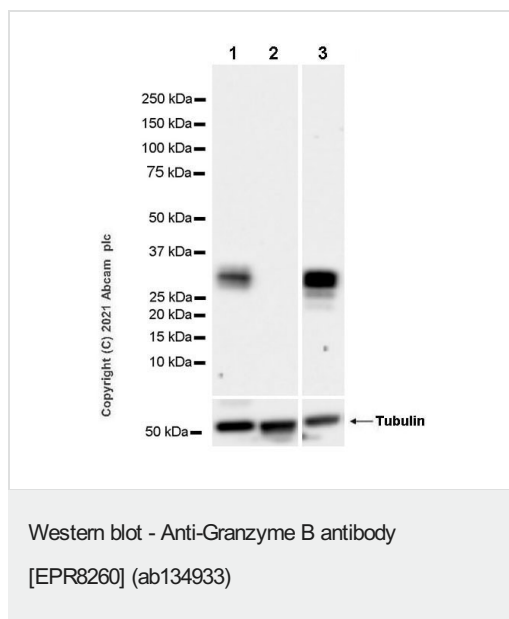
## Target

<b>Function</b>	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.
<b>Sequence similarities</b>	Belongs to the peptidase S1 family. Granzyme subfamily. Contains 1 peptidase S1 domain.
<b>Cellular localization</b>	Cytoplasmic granule. Cytoplasmic granules of cytolytic T-lymphocytes and natural killer cells.

## Images



Flow cytometric analysis of 4% paraformaldehyde fixed No-GFP-CD16.NK-92 Human Natural Killer cells labeling Granzyme B with ab134933 at 1/100 dilution (Red) compared with an Isotype control Rabbit monoclonal IgG ([ab172730](#)) (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG Alexa Fluor® 488 ([ab150081](#)), at 1/5000 dilution was used as the secondary antibody.



**All lanes :** Anti-Granzyme B antibody [EPR8260] (ab134933) at 1/1000 dilution

**Lane 1 :** KARPAS-299 (human anaplastic large cell lymphoma), whole cell lysate

**Lane 2 :** Jurkat (human T cell leukemia T lymphocyte), whole cell lysate

**Lane 3 :** SR (human pleural effusion lymphoblast, whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/10000 dilution

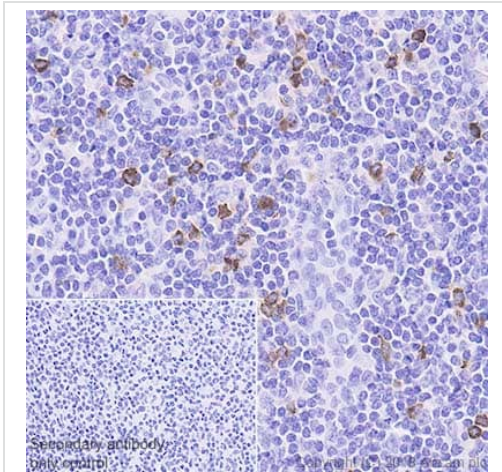
**Predicted band size:** 28 kDa

**Observed band size:** 28 kDa

**Exposure time:** 48 seconds

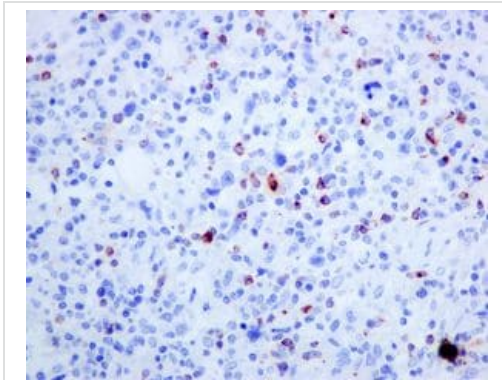
Negative control: Jurkat (PMID:18437383, 25168906).

Blocking and diluting buffer: 5% NFDm/TBST



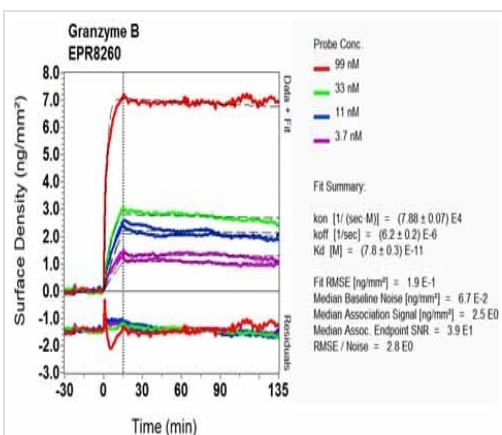
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Granzyme B antibody [EPR8260] (ab134933)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human tonsil tissue sections labeling Granzyme B with Purified ab134933 at 1:250 dilution (2.96 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Granzyme B antibody [EPR8260] (ab134933)

Immunohistochemical analysis of paraffin-embedded, formalin-fixed Human Hodgkin's lymphoma tissue, labelling Granzyme B using unpurified ab134933 at a 1/100 dilution. Heat mediated antigen retrieval was performed with citrate buffer pH 6 before commencing with IHC staining protocol.



OIR-D Scanning - Anti-Granzyme B antibody [EPR8260] (ab134933)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

Tissue Microarray (TMA) data for ab134933					
Normal tissue samples			Malignant tissue samples		
Human cardiac muscle	x	Human placenta	x	Clear cell carcinoma of human kidney	x
Human cerebrum	x	Human skeletal muscle	x	Human bladder cancer	x
Human colon	x	Human skin	x	Human breast carcinoma	x
Human endometrium	x (immune cells ✓)	Human spleen	✓	Human cervical carcinoma	x
Human kidney	x	Human stomach	x	Human colon carcinoma	x
Human liver	x	Human testis	x	Human endometrial carcinoma	x
Human lung	x	Human thyroid	x	Human gastric adenocarcinoma	x
Human mammary gland	x	Human tonsil	✓	Human glioma	x
Human pancreas	x			Human hepatocellular carcinoma	x
				Human Hodgkin's lymphoma	✓
				Human lung carcinoma	x
				Human non-Hodgkin's lymphoma	✓
				Human ovarian carcinoma	x
				Human pancreatic carcinoma	x
				Human prostatic hyperplasia	x
				Human thymoma	x
				Human thyroid carcinoma	x

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Granzyme B antibody [EPR8260] (ab134933)

Tissue Microarrays stained for "Anti-Granzyme B antibody [EPR8260]" using "ab134933" in immunohistochemical analysis.

This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with ab134933 for 30 mins at room temperature followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Granzyme B antibody [EPR8260] (ab134933)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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