

Anti-Granzyme B antibody [EPR22645-206] ab255598

リコンビナント RabMAb

★★★★☆ **3 Abreviews** **20 References** 画像数 9

製品の概要

製品名	Anti-Granzyme B antibody [EPR22645-206]
製品の詳細	Rabbit monoclonal [EPR22645-206] to Granzyme B
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P, IHC-Fr, IP 適用なし: Flow Cyt or ICC/IF
種交差性	交差種: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Mouse splenocyte lysate. IHC-P: Human tonsil and colon tissues; Mouse lung and spleen tissue. IHC-Fr: Mouse spleen tissue; Rat spleen tissue. IP: Mouse spleen tissue.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR22645-206

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab255598の使用に適用されず**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 27, 65 kDa (predicted molecular weight: 27 kDa).
IHC-P	★★★★★ (3)	1/3000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr		1/200. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).
IP		1/30.

追加情報

Is unsuitable for Flow Cyt or ICC/IF.

ターゲット情報

機能

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.

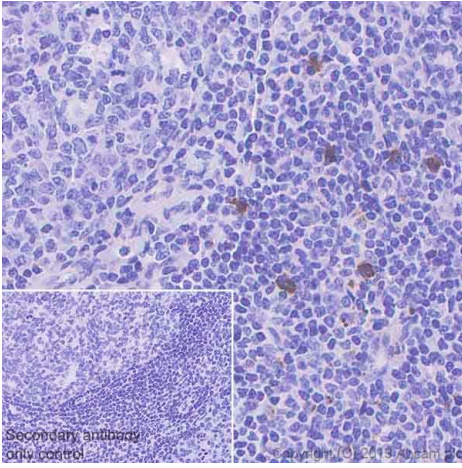
配列類似性

Belongs to the peptidase S1 family. Granzyme subfamily.
Contains 1 peptidase S1 domain.

細胞内局在

Cytoplasmic granule. Cytoplasmic granules of cytolytic T-lymphocytes and natural killer cells.

画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Granzyme B antibody [EPR22645-206] (ab255598)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling Granzyme B with ab255598 at 1/3000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on lymphocytes in human tonsil (PMID: 29042640) is observed.

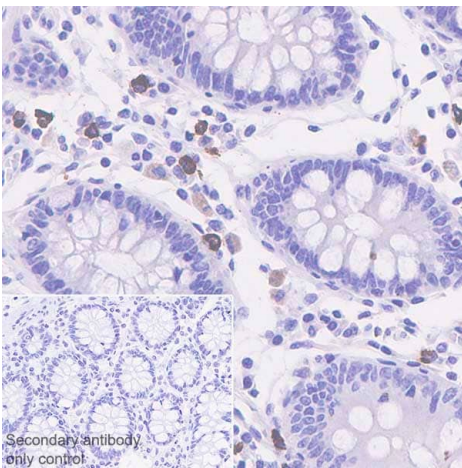
The section was incubated with ab255598 for 30 mins at RT.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Granzyme B antibody [EPR22645-206] (ab255598)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Granzyme B with ab255598 at 1/3000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on lymphocytes in human colon is observed.

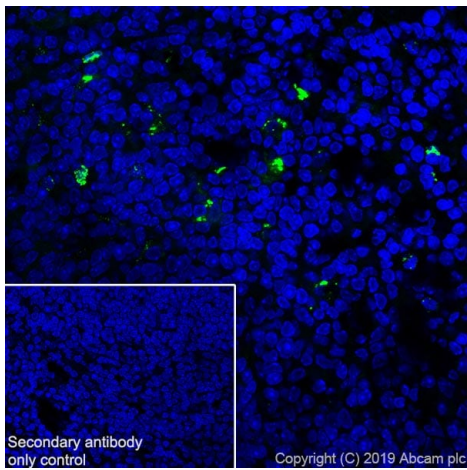
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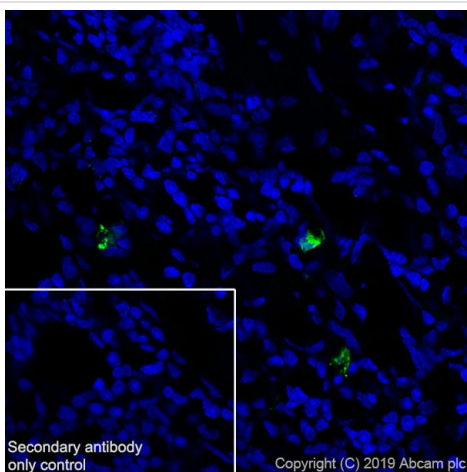


Immunohistochemistry (Frozen sections) - Anti-Granzyme B antibody [EPR22645-206] (ab255598)

Immunohistochemical analysis of 4% PFA fixed 0.2% Triton X-100 permeabilized frozen Mouse spleen tissue labeling ab255598 with Granzyme B at 1/200 dilution followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution. The nuclear counterstain was DAPI (Blue).

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody was **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.

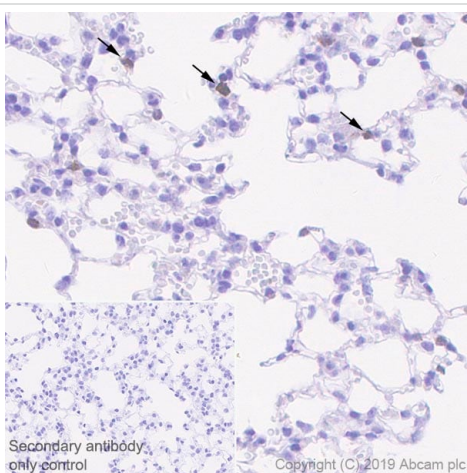


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Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody was **ab150077** AlexaFluor 488 Goat anti-Rabbit secondary at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Granzyme B antibody [EPR22645-206] (ab255598)

Immunohistochemical analysis of paraffin-embedded Mouse lung tissue labeling Granzyme B with ab255598 at 1/3000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on lymphocytes in mouse lung (PMID: 23642129) is observed.

The section was incubated with ab255598 for 30 mins at RT.

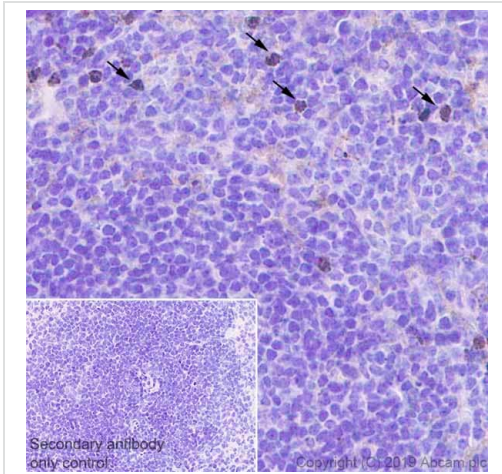
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC

polymer detection kit HRP/DAB (**ab209101**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Granzyme B antibody [EPR22645-206] (ab255598)

Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling Granzyme B with ab255598 at 1/3000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on lymphocytes in mouse spleen (PMID: 7697916) is observed.

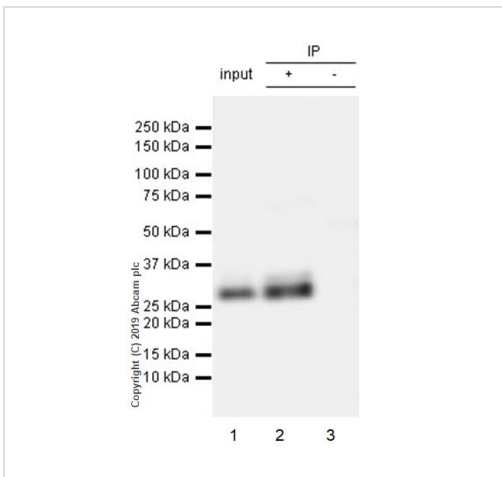
The section was incubated with ab255598 for 30 mins at RT.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).



Immunoprecipitation - Anti-Granzyme B antibody [EPR22645-206] (ab255598)

Granzyme B was immunoprecipitated from 0.35 mg mouse spleen cells (treated with 2.5ug/ml Concanavalin A for 72h) whole cell lysate with ab255598 at 1/30 dilution. Western blot was performed on the immunoprecipitate using ab255598 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used as the secondary antibody at 1/5000 dilution.

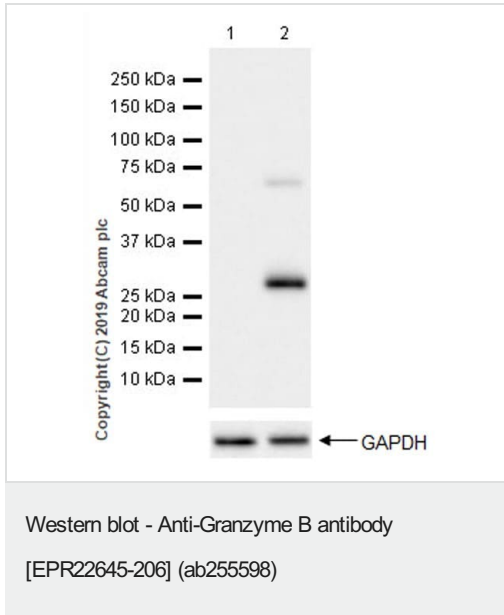
Lane 1: Mouse spleen cells (treated with 2.5ug/ml Concanavalin A for 72h) whole cell lysate 10µg

Lane 2: ab255598 IP in mouse spleen cells (treated with 2.5ug/ml Concanavalin A for 72h) whole cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab255598 in mouse spleen cells (treated with 2.5ug/ml Concanavalin A for 72h) whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 10 seconds



All lanes : Anti-Granzyme B antibody [EPR22645-206] (ab255598) at 1/1000 dilution

Lane 1 : Untreated mouse splenocyte lysate

Lane 2 : Mouse splenocytes treated with 2.5µg/ml concanavalin for 72 hours, lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 27 kDa

Observed band size: 28,65 kDa

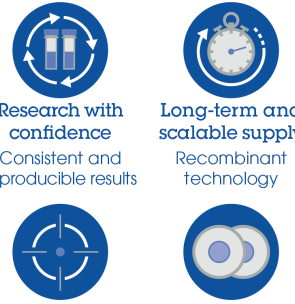
Exposure time: 8 seconds

The expression of Granzyme B is elevated in stimulated splenocytes. Granzyme B forms complex with its protease inhibitor.

The molecular weight observed is consistent with what has been described in the literature (PMID: 8663264, 17116752, 21919028, 9774654).

Blocking/Diluting buffer and concentration: 5% NFDm/TBST.

Why choose a recombinant antibody?



<p>Research with confidence Consistent and reproducible results</p>	<p>Long-term and scalable supply Recombinant technology</p>
<p>Success from the first experiment Confirmed specificity</p>	<p>Ethical standards compliant Animal-free production</p>

Anti-Granzyme B antibody [EPR22645-206]
(ab255598)

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