abcam

Product datasheet

Anti-CD3 epsilon antibody [SP7], prediluted ab21703

リコンビナント RabMAb

★★★★★ 1 Abreviews 21 References 画像数 4

製品の概要

製品名	Anti-CD3 epsilon antibody [SP7], prediluted
製品の詳細	Rabbit monoclonal [SP7] to CD3 epsilon, prediluted
由来種	Rabbit
特異性	ab21703 recognises CD3 epsilon chain. This antibody reacts with the intracytoplasmic portion of the CD3 antigen expressed by T cells. It stains human T cells in both the cortex and medulla of the thymus and in peripheral lymphoid tissues.
アプリケーション	**適用あり:** WB, mIHC, Flow Cyt (Intra), IHC-P
種交差性	**交差種:** Mouse, Rat, Human **交差が予測される動物種:** Sheep, Rabbit, Cow, Dog, Pig, Cynomolgus monkey, Macaque monkey, Woodchuck
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	Tonsil tissue. Recombinant Human CD3 epsilon protein (**ab114153**) can be used as a positive control in WB.
特記事項	This antibody is suitable for staining normal and neoplastic T cells. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. **This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.**

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C.
バッファー	pH: 7.2 Preservative: 0.1% Sodium azide

	Constituents: 1% BSA, PBS Inert stabilizer
精製度	Protein A purified
一次抗体 備考	This antibody is suitable for staining normal and neoplastic T cells.
ポリ/モノ	モノクローナル
クローン名	SP7
アイソタイプ	IgG

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ab21703の使用に適用されます

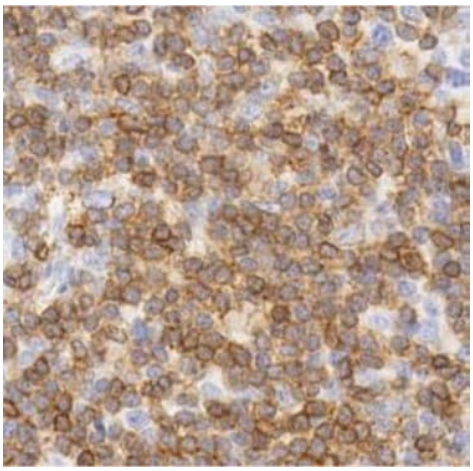
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. Predicted molecular weight: 19 kDa.
mIHC		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	1/150. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Use neat. Perform high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0.

ターゲット情報

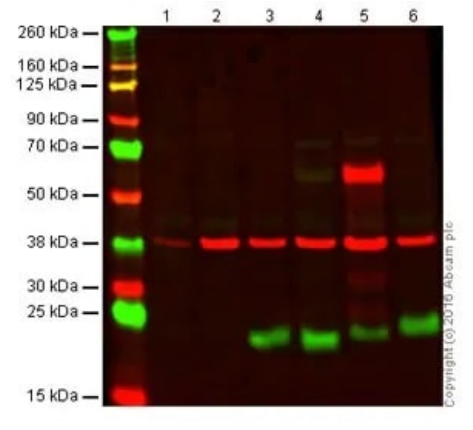
機能	The CD3 complex mediates signal transduction.
配列類似性	Contains 1 Ig-like (immunoglobulin-like) domain. Contains 1 ITAM domain.
細胞内局在	Membrane.

画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD3 epsilon antibody [SP7], prediluted (ab21703)

Immunohistochemical analysis of paraffin-embedded Human tonsil labeling CD3 epsilon with ab21703 at 1/150 (7 µg/ml). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab21703 for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. DAB was used as the chromogen. Counterstained with Hematoxylin and mounted with DPX.



Western blot - Anti-CD3 epsilon antibody [SP7], prediluted (ab21703)

All lanes : Anti-CD3 epsilon antibody [SP7] (**ab16669**) at 1/25 dilution

Lane 1 : THP1 whole cell lysate (-ve control)
Lane 2 : Raji whole cell lysate (-ve control)
Lane 3 : Jurkat whole cell lysate
Lane 4 : Human Thymus tissue lysate
Lane 5 : Mouse Thymus tissue lysate
Lane 6 : Rat Thymus tissue lysate

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

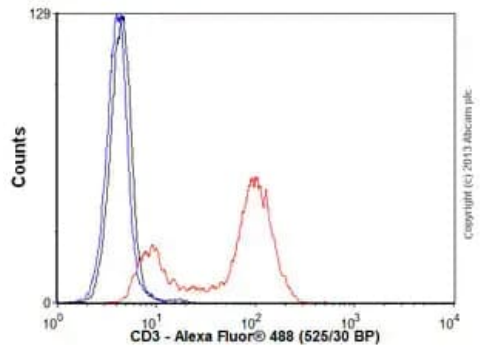
Predicted band size: 19 kDa
Observed band size: 23 kDa

This image was generated using a previous batch manufactured using hybridoma production method.

Lanes 1 - 6: Merged signal (red and green). Green – **ab16669** observed at 23 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

This blot was produced using a 4-12% Bis-tris gel under the MES buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using Licor blocking buffer before being incubated with **ab16669** and **ab8245** (loading control) overnight at 4°C. Antibody binding was detected using Goat **Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773)** and **Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776)** at a 1:10000 dilution for 1hr at room temperature and then imaged.

This data was developed using the undiluted version of this antibody (**ab16669**).

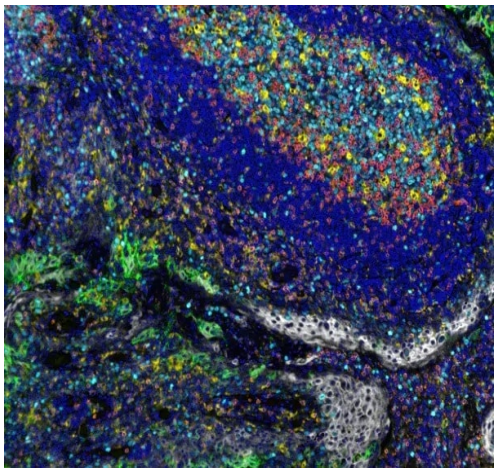


Flow Cytometry (Intracellular) - Anti-CD3 epsilon antibody [SP7], prediluted (ab21703)

This image was generated using a previous batch manufactured using hybridoma production method.

Human peripheral blood lymphocytes stained with **ab16669** (red line). Human whole blood was processed using a modified protocol based on Chow *et al*, 2005 (PMID: 16080188). In brief, human whole blood was fixed in 4% formaldehyde (methanol-free) for 10 min at 22°C. Red blood cells were then lyzed by the addition of Triton X-100 (final concentration - 0.1%) for 15 min at 37°C. For experimentation, cells were treated with 50% methanol (-20°C) for 15 min at 4°C. Cells were then incubated with the antibody (**ab16669**, 1/1000 dilution) for 30 min at 4°C. The secondary antibody used was **Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody** at 1/2000 dilution for 30 min at 4°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10^6 cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >30,000 total events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. Gating strategy - peripheral blood lymphocytes.

This data was developed using the undiluted version of this antibody (**ab16669**).



Multiplex immunohistochemistry - Anti-CD3 epsilon antibody [SP7], prediluted (ab21703)

This image was generated using a previous batch manufactured using hybridoma production method.

This data was developed using the undiluted version of this antibody (**ab16669**).

Fluorescence multiplex immunohistochemical analysis of normal human tonsil tissue (formalin-fixed paraffin-embedded section).

Merged staining of anti-PD1 (**ab237728**; orange; Opal™520), anti-PDL1 (**ab237726**; green; Opal™540), anti-CD68 (**ab192847**; yellow; Opal™570), anti-CD3 epsilon (**ab16669**; red; Opal™620), anti-Ki67 (**ab16667**; light blue; Opal™650) and anti-PanCK (**ab7753**; grey; Opal™690).

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 7-color automation IHC kit (NEL821001KT, Akoya Biosciences®).

The section was incubated in six rounds of staining; in the order of **ab237728** (1/500 dilution), **ab237726** (1/500 dilution), **ab192847** (1/300 dilution), **ab16669** (1/300 dilution), **ab16667** (1/200 dilution) and **ab7753** (1/200 dilution); each using a separate fluorescent tyramide signal amplification system.

Sodium citrate antigen retrieval (Leica ER1, pH6.0, 30 minutes) was used in between rounds of tyramide signal amplification to remove the antibody from the previous round, to avoid any cross-reactivity.

DAPI (dark blue) was used as a nuclear counter stain.

Microscopy and pseudocoloring of individual Opal™ dyes was performed using a Vectra Polaris.

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