abcam

Product datasheet

Anti-CD8 alpha antibody [SP16] ab101500

リコンビナント　RabMAb®

★★★★☆ **3 Abreviews**　**45 References**　画像数 3

製品の概要

製品名	Anti-CD8 alpha antibody [SP16]
製品の詳細	Rabbit monoclonal [SP16] to CD8 alpha
由来種	Rabbit
アプリケーション	**適用あり:** IHC-P, Flow Cyt
種交差性	**交差種:** Human
免疫原	Synthetic peptide within Human CD8 alpha aa 200 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: **P01732**
エピトープ	C-terminus
ポジティブ・コントロール	IHC-P: Human tonsil and lymph node tissue. Flow Cyt: Human peripheral blood lymphocytes.
特記事項	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. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.2 Preservative: 0.1% Sodium azide Constituents: 1% BSA, PBS
精製度	Tissue culture supernatant
ポリ/モノ	モノクローナル
クローン名	SP16

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ab101500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
IHC-P	★★★★☆ (3)	1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at room temperature for 20 min.
Flow Cyt		1/1000. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

ターゲット情報

機能	Identifies cytotoxic/suppressor T-cells that interact with MHC class I bearing targets. CD8 is thought to play a role in the process of T-cell mediated killing. CD8 alpha chains binds to class I MHC molecules alpha-3 domains.
関連疾患	Defects in CD8A are a cause of familial CD8 deficiency (CD8 deficiency) [MIM:608957]. Familial CD8 deficiency is a novel autosomal recessive immunologic defect characterized by absence of CD8+ cells, leading to recurrent bacterial infections.
配列類似性	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
翻訳後修飾	All of the five most carboxyl-terminal cysteines form inter-chain disulfide bonds in dimers and higher multimers, while the four N-terminal cysteines do not.
細胞内局在	Secreted and Cell membrane.

画像
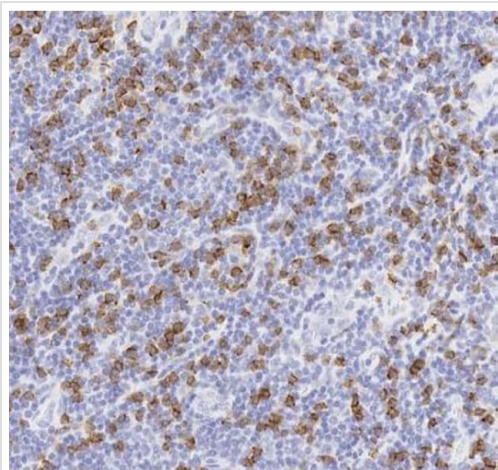
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD8 alpha antibody [SP16] (ab101500)

Immunohistochemical analysis of paraffin-embedded Human tonsil labeling CD8 with ab101500 at 1/100 (21 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 ab101500 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.
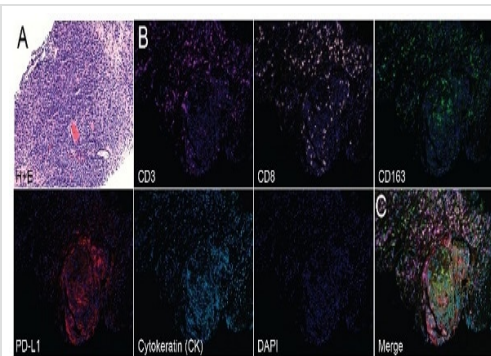

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD8 alpha antibody [SP16] (ab101500)

Image from Graff JN et al.,Oncotarget 7(33), 52810 - 52817. Fig 2,; doi: 10.18632/oncotarget.10547. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/3.0/.

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

IHC using multi-spectral imaging on human lymph node (A-C) obtained from men with mCRPC. A) H+E staining and B) single-color images (plus nuclear stain; DAPI) of CD3 (**ab16669**), CD8 alpha (ab101500), CD163, PD-L1, cytokeratin (CK), DAPI and C) merged. H+E stating at 20X magnification; multi-spectral images 200X magnification.
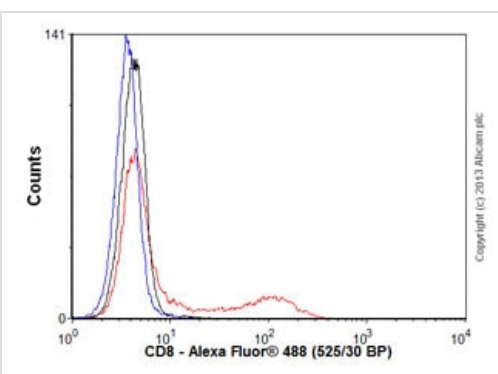
Flow Cytometry - Anti-CD8 alpha antibody [SP16] (ab101500)

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

Human peripheral blood lymphocytes staining CD8 alpha with ab101500 (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 (ab101500, 1/1000 dilution) for 30 min at 4°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) (**ab150077**) at 1/2000 dilution for 30 min at 4°C. Isotype

control antibody (black line) was rabbit IgG (monoclonal)
(0.1µg/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.

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