

Product datasheet

Anti-Furin antibody [MM0298-4G31] ab89558

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製品の概要

製品名	Anti-Furin antibody [MM0298-4G31]
製品の詳細	Mouse monoclonal [MM0298-4G31] to Furin
アプリケーション	適用あり: Flow Cyt, WB, IHC-P
種交差性	交差種: Human
免疫原	Recombinant Human Furin

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 or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	Preservative: None Constituents: PBS
精製度	Protein G purified
特記事項 (精製)	The IgG fraction of culture supernatant was purified by Protein G affinity chromatography and filtered through a 0.2 µm filter.
ポリ/モノ	モノクローナル
クローン名	MM0298-4G31
アイソタイプ	IgG1

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab89558** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

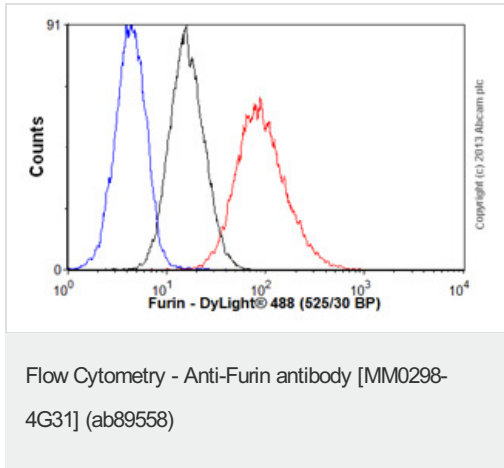
アプリケーション	Abreviews	特記事項
Flow Cyt		Use 2µg for 10 ⁶ cells. ab170190 -Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

アプリケーション	Abreviews	特記事項
WB		1/500 - 1/1000. Predicted molecular weight: 88 kDa.
IHC-P		1/20 - 1/100.

ターゲット情報

機能	Furin is likely to represent the ubiquitous endoprotease activity within constitutive secretory pathways and capable of cleavage at the RX(K/R)R consensus motif.
組織特異性	Seems to be expressed ubiquitously.
配列類似性	Belongs to the peptidase S8 family. Furin subfamily. Contains 1 homo B/P domain.
ドメイン	Contains a cytoplasmic domain responsible for its TGN localization and recycling from the cell surface.
翻訳後修飾	The inhibition peptide, which plays the role of an intramolecular chaperone, is autocatalytically removed in the endoplasmic reticulum (ER) and remains non-covalently bound to furin as a potent autoinhibitor. Following transport to the trans Golgi, a second cleavage within the inhibition propeptide results in propeptide dissociation and furin activation. Phosphorylation is required for TGN localization of the endoprotease. In vivo, exists as di-, mono- and non-phosphorylated forms.
細胞内局在	Golgi apparatus > trans-Golgi network membrane. Cell membrane. Shuttles between the trans-Golgi network and the cell surface. Propeptide cleavage is a prerequisite for exit of furin molecules out of the endoplasmic reticulum (ER). A second cleavage within the propeptide occurs in the trans Golgi network (TGN), followed by the release of the propeptide and the activation of furin.

画像



Overlay histogram showing HeLa cells stained with ab89558 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab89558, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line). Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

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