

## Product datasheet

# Recombinant mouse IL33 protein ab109164

### 製品の概要

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製品名	Recombinant mouse IL33 protein
タンパク質長	Full length protein

### 製品の詳細

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由来	Recombinant
由来	Escherichia coli

### アミノ酸配列

アクセッション番号 [Q8BVZ5](#)

生物種	Mouse
分子量	18 kDa
領域	109 to 266

### 特性

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Our [Abpromise guarantee](#) covers the use of **ab109164** in the following tested applications.

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

生理活性 Activates ST2 dependent NF-kB pathway.

アプリケーション Functional Studies

SDS-PAGE

エンドトキシン・レベル < 0.100 Eu/μg

精製度 > 95 % SDS-PAGE.

製品の状態 Lyophilised

備考 PBS containing at least 0.1 % BSA should be used for further dilutions.

### 前処理および保存

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保存方法および安定性 Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles.

Constituent: 99% PBS

This product is an active protein and may elicit a biological response in vivo, handle with caution.

<b>再構成</b>	Reconstitute with 100 µl sterile water.
<b>関連情報</b>	
<b>機能</b>	<p>Cytokine that binds to and signals through the IL1RL1/ST2 receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells (PubMed:16286016). Involved in the maturation of Th2 cells inducing the secretion of T-helper type 2-associated cytokines. Also involved in activation of mast cells, basophils, eosinophils and natural killer cells. Acts as a chemoattractant for Th2 cells, and may function as an "alarmin", that amplifies immune responses during tissue injury (PubMed:17853410, PubMed:18836528).</p> <p>In quiescent endothelia the uncleaved form is constitutively and abundantly expressed, and acts as a chromatin-associated nuclear factor with transcriptional repressor properties, it may sequester nuclear NF-kappaB/RELA, lowering expression of its targets (PubMed:21734074). This form is rapidly lost upon angiogenic or proinflammatory activation (PubMed:18787100).</p>
<b>組織特異性</b>	Expressed at high level in high endothelial venules found in tonsils, Peyer patches and mesenteric lymph nodes. Almost undetectable in placenta.
<b>配列類似性</b>	Belongs to the IL-1 family. Highly divergent.
<b>ドメイン</b>	The homeodomain-like HTH domain mediates nuclear localization and heterochromatin association.
<b>翻訳後修飾</b>	The full length protein can be released from cells and is able to signal via the IL1RL1/ST2 receptor. However, proteolytic processing by CSTG/cathepsin G and ELANE/neutrophil elastase produces C-terminal peptides that are more active than the unprocessed full length protein. May also be proteolytically processed by calpains (PubMed:19596270). Proteolytic cleavage mediated by apoptotic caspases including CASP3 and CASP7 results in IL33 inactivation (PubMed:19559631). In vitro proteolytic cleavage by CASP1 was reported (PubMed:16286016) but could not be confirmed in vivo (PubMed:19465481) suggesting that IL33 is probably not a direct substrate for that caspase.
<b>細胞内局在</b>	Nucleus. Chromosome. Cytoplasmic vesicle, secretory vesicle. Secreted. Associates with heterochromatin and mitotic chromosomes (PubMed:17185418).

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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