

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](#)

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| 生物種 | Mouse |
| 分子量 | 18 kDa |
| 領域 | 109 to 266 |

特性

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

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.

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| 再構成 | Reconstitute with 100 µl sterile water. |
| 関連情報 | |
| 機能 | <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> |
| 組織特異性 | Expressed at high level in high endothelial venules found in tonsils, Peyer patches and mesenteric lymph nodes. Almost undetectable in placenta. |
| 配列類似性 | Belongs to the IL-1 family. Highly divergent. |
| ドメイン | The homeodomain-like HTH domain mediates nuclear localization and heterochromatin association. |
| 翻訳後修飾 | 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. |
| 細胞内局在 | 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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- Response to your inquiry within 24 hours
- 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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