abcam

Product datasheet

Anti-Calcitonin antibody [16B5] ab11493

★★★★★ **2 Abreviews**   **1 References**   画像数 5

製品の概要

製品名	Anti-Calcitonin antibody [16B5]
製品の詳細	Mouse monoclonal [16B5] to Calcitonin
由来種	Mouse
特異性	This antibody recognises human procalcitonin and calcitonin. Specific for calcitonin (central part).
アプリケーション	**適用あり:** Sandwich ELISA, Flow Cyt, WB
種交差性	**交差種:** Human, Recombinant fragment
免疫原	Recombinant fragment (Human).
エピトープ	aa 72-81
特記事項	This product was changed from ascites to tissue culture supernatant on 13 June 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

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 freeze / thaw cycles.
バッファー	pH: 7.40
Preservative: 0.09% Sodium azide
Constituent: PBS
精製度	Protein A purified
特記事項（精製）	Purified from TCS.
ポリ/モノ	モノクローナル
クローン名	16B5

1

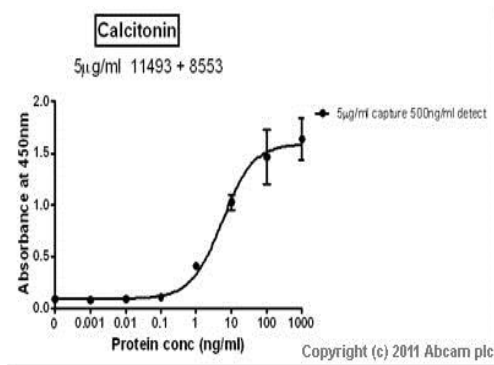| ミエローマ	Sp2/0
アイソタイプ	IgG2b

アプリケーション

The Abpromise guarantee <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab11493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
Sandwich ELISA		Use at an assay dependent concentration. Can be paired for Sandwich ELISA with **Rabbit polyclonal to Calcitonin (ab8553)**. For sandwich ELISA, use this antibody as Capture at 5µg/ml with **ab8553** as Detection.
Flow Cyt		Use at an assay dependent concentration. **ab170192** - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
WB	★★★★★ <u>(1)</u>	Use at an assay dependent concentration. Predicted molecular weight: 15 kDa.

ターゲット情報

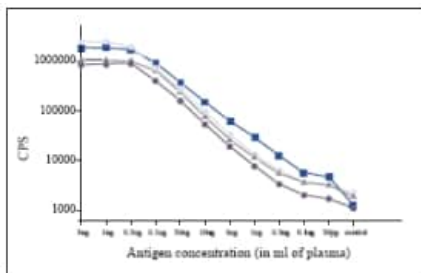| 関連性	Calcitonin is a 32 amino acid peptide hormone synthesized by the parafollicular cells of the thyroid. It causes a rapid, but short lived, reduction in serum calcium and phosphate by promoting the incorporation of those ions in the bones. This effect is opposite to that of parathyroid hormone. Staining for calcitonin may be used for the identification of a spectrum of C cell proliferative abnormalities ranging from C cell hyperplasia to invasive tumors. Staining for calcitonin in medullary carcinoma of the thyroid produces a fine granular pattern in the cytoplasm. Amyloid deposits within the tumor may also exhibit varying degrees of calcitonin activity.
細胞内局在	Cytoplasmic and Secreted

画像

Standard Curve for Calcitonin dilution range 1pg/ml to 1ug/ml using Capture Antibody Mouse monoclonal [16B5] to Calcitonin (ab11493) at 5ug/ml and Detector Antibody Rabbit polyclonal to Calcitonin (**ab8553**) at 0.5ug/ml

This image was generated using the ascites version of the product.

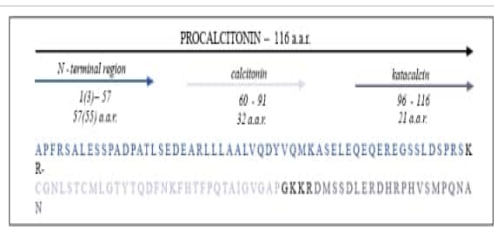Sandwich ELISA - Anti-Calcitonin antibody [16B5] (ab11493)

Calibration curves of several procalcitonin sandwich ELISAs using a range of monclonal antibodies available agaisn't procalcitonin, calcitonin and catacalcin fragments. Capture antibodies used at 1 µg/well and detection antibodies at 0.1 µg/well.

Dark blue square = ab11493 [16B5] (calcitonin fragment) and **ab11494** [42] (procalcitonin fragment). Light grey circle = **ab11497** [24B2] (calcitonin fragment) and **ab11484** [13B9] (calcitonin fragment). Grey triangle = **ab11487** [14C12] (catacalcin fragment) and **ab11496** [14A2] (calcitonin fragment). Dark grey circle = **ab14813** [27A3] (procalcitonin fragment) and **ab11491** [22A11] (catacalcin fragment).
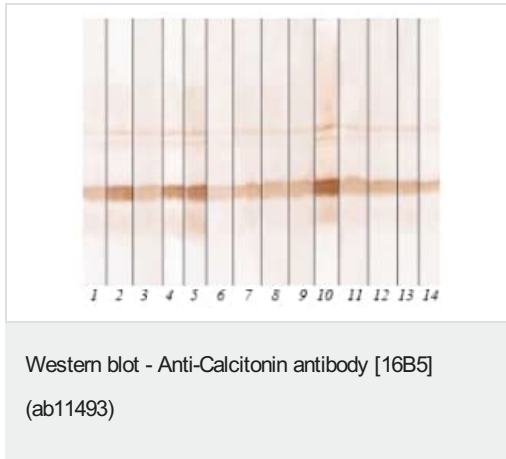
This image was generated using the ascites version of the product.

Sandwich ELISA - Anti-Calcitonin antibody [16B5] (ab11493)

Amino acid sequence and schematic diagram of human procalcitonin and the N-terminal, calcitonin, and katacalcin (catacalcin) fragments.

This image was generated using the ascites version of the product.

Schematic Diagram - Anti-Calcitonin antibody [16B5] (ab11493)

Western blot - Anti-Calcitonin antibody [16B5]
(ab11493)

Immunodetection of human recominbinant procalcitonin in WB by a range of monoclonal antibodies available which detect different fragments of the protein, N-terminal, calcitonin or catacalcin, (see immunogen section and related figure).

Anti- N-terminal antibodies available; 1) **ab14816** [6F10], 2) **ab14813** [27A3], 3) **ab11498** [38F11], 4) **ab14817** [44D9], 5) **ab11494** [42],
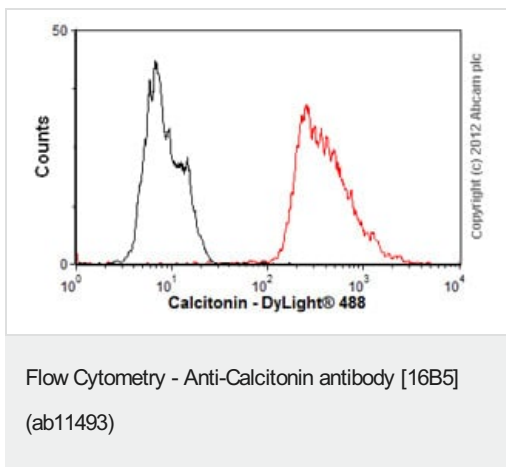
Anti- calcitonin antibodies available; 6) **ab11484** [13B9], 7) **ab14818** [13F2], 8) **ab14819** [13G11], 9) **ab11496** [14A2], 10) ab11493 [16B5], 11) **ab11497** [24B2],

Anti- catacalcin antibodies available; 12) **ab11487** [14C12], 13) **ab11490** [18B7], 14) **ab11491** [22A11].

Immunodetection of human recominbinant procalcitonin in WB by a range of monoclonal antibodies available which detect different fragments of the protein, N-terminal, calcitonin or catacalcin, (see immunogen section and related figure).

Anti- N-terminal antibodies available; 1) **ab14816** [6F10], 2) **ab14813** [27A3], 3) **ab1149**

This image was generated using the ascites version of the product.

Flow Cytometry - Anti-Calcitonin antibody [16B5]
(ab11493)

Overlay histogram showing SH-SY5Y cells stained with ab11493 (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 (ab11493, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight$^®$ 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (**ab91366**<, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in SH-SY5Y cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

This image was generated using the ascites version of the product.

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