abcam

Product datasheet

Anti-Calcitonin antibody [16B5] ab11493

★★★★★ 2 Abreviews 1 References 5 图像

概述

产品名称	Anti-Calcitonin抗体[16B5]
描述	**小鼠单克隆抗体**[16B5] to Calcitonin
宿主	Mouse
特异性	This antibody recognises human procalcitonin and calcitonin. Specific for calcitonin (central part).
经测试应用	**适用于:** Sandwich ELISA, Flow Cyt, WB
种属反应性	**与反应:** Human, Recombinant fragment
免疫原	Recombinant fragment (Human).
表位	aa 72-81
常规说明	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

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.40 Preservative: 0.09% Sodium azide Constituent: PBS
纯度	Protein A purified
纯化说明	Purified from TCS.
克隆	单克隆
克隆编号	16B5

骨髓瘤	Sp2/0
同种型	IgG2b

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab11493于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

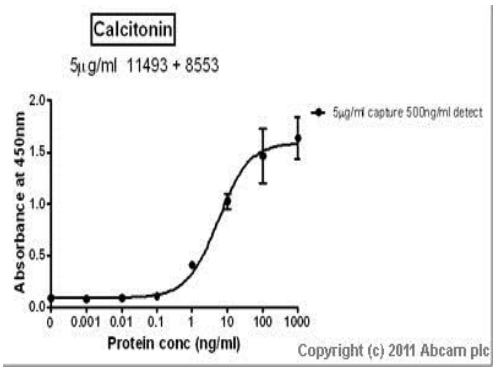
应用	Ab评论	说明
Sandwich ELISA		Use at an assay dependent concentration. Can be paired for Sandwich ELISA with **Rabbit polyclonal to Calcitonin (ab8553)**. For sandwich ELISA, use this antibody as Capture at 5µg/ml with **ab8553** as Detection.
Flow Cyt		Use at an assay dependent concentration. **ab170192** - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
WB	★★★★★ **(1)**	Use at an assay dependent concentration. Predicted molecular weight: 15 kDa.

靶标

相关性 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.

细胞定位 Cytoplasmic and Secreted

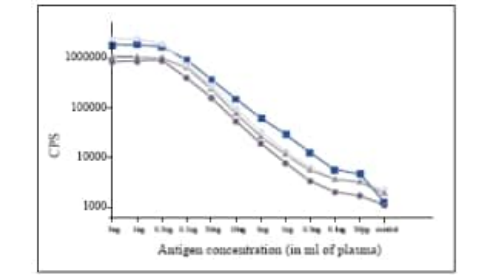
图片



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

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.

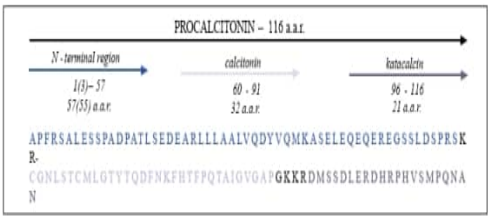


Sandwich ELISA - Anti-Calcitonin antibody [16B5] (ab11493)

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.



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

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

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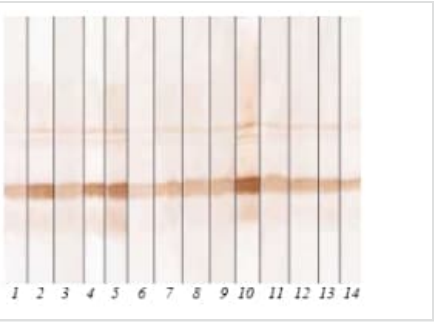


Western blot - Anti-Calcitonin antibody [16B5] (ab11493)

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],

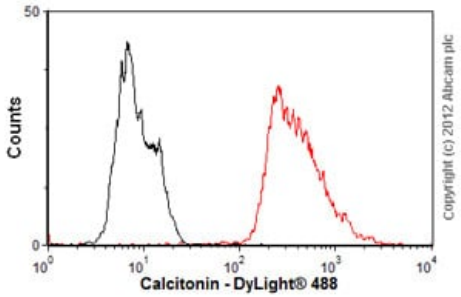
Anti- calcitonin antibodies available; 6) **ab11484** [13B9], 7) **ab14818** [13F2], 8) **ab14819** [13G11], 9) **ab11496** [14A2], 10) ab11493 [16B5], 11) **ab11497** [24B2],

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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