

Product datasheet

Anti-Calcitonin antibody [14C12] ab11487

[1 References](#) [3 Images](#)

Overview

Product name	Anti-Calcitonin antibody [14C12]
Description	Mouse monoclonal [14C12] to Calcitonin
Host species	Mouse
Specificity	Specific for katacalcin (C-terminal part).
Tested applications	Suitable for: Sandwich ELISA, ELISA, WB
Species reactivity	Reacts with: Human
Immunogen	Full length protein (Human).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium azide Constituent: PBS
Purity	Protein A purified
Purification notes	Purity tested by electrophoresis.
Clonality	Monoclonal
Clone number	14C12
Myeloma	Sp2/0
Isotype	IgG1

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab11487 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Sandwich ELISA		Use at an assay dependent dilution.

Application	Abreviews	Notes
ELISA		Use at an assay dependent dilution.
WB		Use at an assay dependent dilution. Predicted molecular weight: 15 kDa.

Target

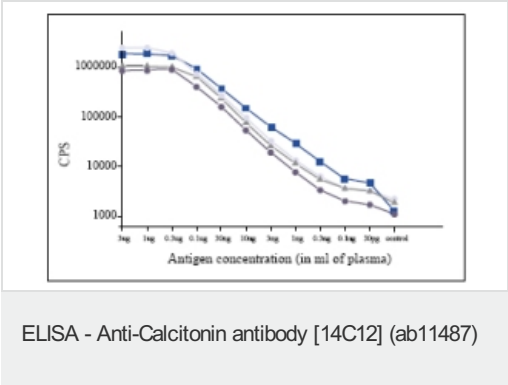
Relevance

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.

Cellular localization

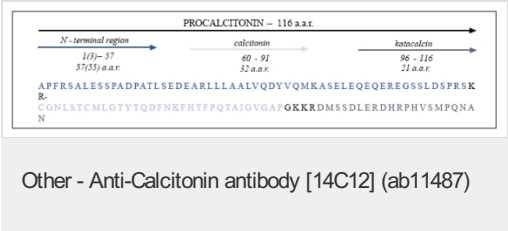
Cytoplasmic and Secreted

Images

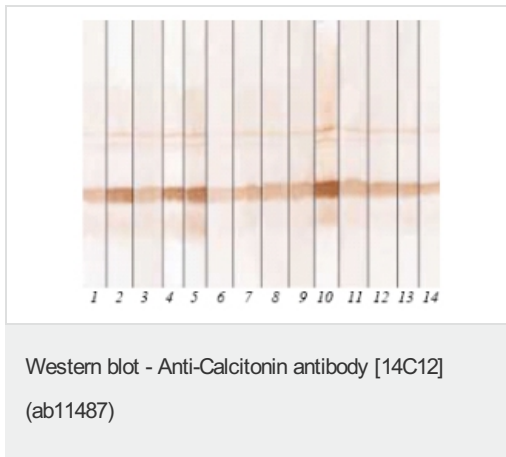


Calibration curves of several procalcitonin sandwich ELISAs using a range of monoclonal antibodies available again't procalcitonin, calcitonin and catacalcin fragments. Capture antibodies used at 1 µg/well and detection antibodies at 0.1 µg/well.

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).



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



Immunodetection of human recombinant 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 recombinant 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](#)

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