abcam

Product datasheet

Anti-Procalcitonin antibody [42] (HRP) ab24454

Overview

Product name	Anti-Procalcitonin antibody [42] (HRP)
Description	Mouse monoclonal [42] to Procalcitonin (HRP)
Host species	Mouse
Conjugation	HRP
Specificity	Specific for N-terminal fragment.
Tested applications	**Suitable for:** Sandwich ELISA, ELISA, WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment (Human)
Epitope	aa 21-40

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.05% Proclin Constituents: PBS, pH 7.4
Purity	Protein A purified
Clonality	Monoclonal
Clone number	42
Myeloma	Sp2/0
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab24454 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. Can be used as Detection antibody.

Application	Abreviews	Notes
ELISA		Use at an assay dependent dilution. Can be paired for ELISA with **Mouse monoclonal [16B5] to Calcitonin (ab11493)**.
WB		Use at an assay dependent dilution. Predicted molecular weight: 15 kDa.

Target

Relevance

Procalcitonin (PCT) is a 116 amino acid residue peptide with molecular weight of about 13 kDa. PCT itself has no known hormonal activity. PCT belongs to a group of related proteins including calcitonin gene-related peptides I and II, amylin, adrenomodulin and calcitonin (CAPA peptide family). PCT, like other peptides of CAPA family, appears from the common precursor pre-procalcitonin consisting of 141 amino acids by removal of 25 amino acids from the N-terminus. PCT undergoes successive cleavages to form three molecules: N-terminal fragment (55 a.a.), calcitonin (32 a.a.) and katacalcin (21 a.a.). Under normal metabolic conditions, PCT is only present in the C cells of the thyroid gland. In bacterial infection and sepsis, however, intact PCT is found in the blood and, more importantly, its level is related to the severity of bacterial sepsis. Today, PCT is considered to be one of the earliest and most specific markers of sepsis.

Cellular localization

Secreted

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