

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Procalcitonin in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 919510
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Procalcitonin Ala26-Gly117 Accession # P01258
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Human Procalcitonin (CALCA and Calcitonin) is 141 amino acids (aa) in length member of the calcitonin family. Precursor protein is cleaved into a propeptide and the following 2 chains: Calcitonin (aa 85-116) and Katalcalcin (aa 121-141). Antigen used to develop this antibody is correspondent to the propeptide and Calcitonin part of the precursor molecule. Secreted Calcitonin is known to cause a rapid but short-lived drop in the level of calcium and phosphate in blood by promoting the incorporation of those ions in the bones. Over aa 26-117, human Procalcitonin shares 80% aa identity with mouse Procalcitonin.

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