

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Cystatin S in direct ELISAs and Western blots. In direct ELISAs, 100% cross-reactivity with recombinant human (rh) Cystatin SA is observed and no cross-reactivity with rhCystatin D, E, SN, rhFetuin A, rhFetuin B, or rhHPRG (Hi
Source	Monoclonal Mouse IgG _{2B} Clone # 201805
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Cystatin S Ser21-Ala141 Accession # P01036
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.
Immunoprecipitation	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

Cystatin S is a member of family 2 of the Cystatin superfamily (1). Like Cystatins SA and SN, it is produced by the salivary gland and secreted largely in the submandibular/sublingual saliva (2). Unlike Cystatins SA and SN, Cystatin S is not a potent inhibitor of cysteine proteases such as papain and some cathepsins (3). Cystatin S is partially phosphorylated at Ser21 and Ser23 in saliva (4). The functions of Cystatin S are largely unknown. However, it is able to bind more calcium and bind more rapidly to carbonated apatite than cystatins SA or SN, indicating that Cystatin S may be involved in the mineral balance of the tooth (3).

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