

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | 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                            |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 201805                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human Cystatin S<br>Ser21-Ala141<br>Accession # P01036                                                                                                                                                                      |
| <b>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunoprecipitation</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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).

## PRODUCT SPECIFIC NOTICES

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