

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse and human Cystatin C in direct ELISAs. In direct ELISAs, less than 10% cross-reactivity with recombinant human Cystatin C is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Cystatin C (R & D Systems, Catalog # 1238-PI) Ala21-Ala140 Accession # P21460
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.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	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 C is a member of family 2 of the cystatin superfamily (1). It is involved in processes such as tumor invasion and metastasis, inflammation and some neurological diseases. It inhibits many cysteine proteases such as papain and cathepsins B, H, K, L and S (2, 3). All mouse tissues analyzed expressed Cystatin C, with relative levels similar to those of rat and human tissues. For all three species, brain and liver had the highest and lowest levels of Cystatin C, respectively, whereas kidney, spleen and muscle had the levels in between (4). The high degree of similarity in distribution and functional properties for mouse, rat and human Cystatin C indicates that a murine model should be relevant for studies of the human disease, hereditary Cystatin C amyloid angiopathy (4).

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