

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Cystatin B in direct ELISAs and Western blots. In Western blots, 20-25% cross-reactivity with recombinant human (rh) Cystatin B is observed and no cross-reactivity with rhCystatin D, S, SA, SN, recombinant mouse (rm) Cystatin
Source	Monoclonal Rat IgG _{2A} Clone # 227818
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse Cystatin B Met2-Phe98 Accession # Q62426
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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 B, also called stefin B or liver thiol proteinase inhibitor, is a member of family 1 of the cystatin superfamily (1). Like Cystatin A, it is an intracellular inhibitor regulating the activities of cysteine proteases of the papain family such as cathepsins B, H and L (2). Cystatin B-deficient mice have increased expression of proteolysis, apoptosis and glial activation genes, which is consistent with the pathology found in the mouse model of human progressive myoclonus epilepsy (EPM1) (3). The mouse Cystatin B consists of 98 amino acid residues (4).

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