

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Cystatin E/M in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) Cystatin B, S, E/M, SA, S/N, recombinant mouse (rm) Cystatin A, C, D, rhFetuin A, B, rmHPRG, or rhKin
Source	Monoclonal Rat IgG _{2B} Clone # 216820
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Cystatin E/M Glu29-Val149 Accession # NP_082899
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

Neutralization	Optimal dilution of this antibody should be experimentally determined.
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 E/M is a member of family 2 of the cystatin superfamily (1 - 6). It is required for viability and for correct formation of cornified layers in the epidermis and hair follicles, as ichq mice with a null mutation in the cystatin E/M gene have defects in epidermal cornification and die between 5 and 12 days of age (7). Cystatin E/M expression and function may not be limited to cutaneous epithelia. For example, it is found in rat brain and is induced during neuronal cell differentiation (8). In addition to being a cysteine protease inhibitor, the human cystatin E/M is also a substrate for transglutaminases (9).

PRODUCT SPECIFIC NOTICES

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