

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Cystatin B in Western blots and direct ELISAs. In Western blots, less than 5% cross-reactivity with recombinant human (rh) Cystatins A and S, recombinant mouse Cystatin B, rhFetuin A, and rhHPRG (Histidine-Proline-Rich Glycoprotein) is
Source	Monoclonal Mouse IgG _{2B} Clone # 225228
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Cystatin B aa Met2-Phe98 Accession # P04080
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
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 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). Mutations in the Cystatin B gene is the cause of progressive myoclonus epilepsy (EPM1) (3). Because of its expression patterns, Cystatin B can be used as a marker for certain cancers, such as glioblastoma tumors (4). It readily forms amyloid fibrils *in vitro* (5). The human Cystatin B consists of 98 amino acid residues (3).

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