

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Cathepsin H in direct ELISAs and Western blots. In direct ELISAs, less than 2% cross-reactivity with recombinant mouse (rm) Cathepsin L, and rmCathepsin J is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Cathepsin H Glu22-Val333 Accession # Q3UCD6
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.

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

Cathepsin H is a lysosomal cysteine protease of the papain family (1). It is synthesized as a precursor protein, consisting of a signal peptide (residues 1-20), a propeptide (residues 21-95), a mini chain (residues 96-103), a heavy chain (residues 114-290) and a light chain (residues 291-333) (2, 3). A truncated form with a 12 amino acid deletion in the signal peptide region is secreted (4). Cathepsin H is the only known mono-aminopeptidase in the papain family (5). Cathepsin H expression is significantly increased in disease states such as in prostate tumors, sera of asthmatic patients, and mucosa of colorectal cancer patients (4, 6, 7).

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