

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Cathepsin V in direct ELISAs and Western blots. In Western blots, approximately 50% cross-reactivity with recombinant mouse (rm) Cathepsin H and recombinant human (rh) Cathepsin K is observed and no cross-reactivity with
Source	Monoclonal Mouse IgG ₁ Clone # 182016
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Cathepsin V Accession # O60911
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.

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 V (also known as Cathepsin L2 and U) is a cysteine protease of the papain family (1). It is expressed as a proenzyme in lysosomes, which can be autocatalytically converted to the mature form at pH 4.0 (2). Cathepsin V shows high amino acid identity with Cathepsin L (77% for the proenzymes and 80% for the mature enzymes) (3). However, Cathepsin V is specifically expressed in the thymus, testis, and corneal epithelium whereas Cathepsin L is expressed throughout the body.

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