

DESCRIPTION

Species Reactivity	Insect
Specificity	Detects pro and mature forms of Insect Cathepsin L in direct ELISAs and Western blots. In Western blots, less than 5% cross-reactivity with recombinant human Cathepsin L is observed and no cross-reactivity with recombinant mouse Cathepsin L is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 193702
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> ovarian cell line Sf21-derived Insect Cathepsin L
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

The pro form of insect cell Cathepsin L is stable at neutral pH, but autoactivates in acidic buffers under reducing conditions. The activated enzyme is similar in substrate specificity to mammalian Cathepsin L, and is very active as a protease, as judged by its ability to degrade azocasein. Cystatins A, B, C, E/M, F, SA, and SN are potent inhibitors of the insect cell Cathepsin L. Like other cysteine proteases related to papain, insect cell Cathepsin L is also inhibited by E-64 and reagents which react with thiols.

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