

Product datasheet for **AM02270PU-N**

Mistletoe Lectin Mouse Monoclonal Antibody [Clone ID: 2G8-F7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2G8-F7
Applications:	ELISA
Recommended Dilution:	ELISA.
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Recombinant Mistletoe Lectin
Specificity:	Recognizes recombinant Mistletoe Lectin.
Formulation:	PBS, pH 7.4 State: Purified State: Lyophilized ThioSorb M purified Ig fraction from Cell Culture Supernatant
Reconstitution Method:	Restore in aqua bidest to 1 mg/ml
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Background:

Mistletoe lectin I (ML-I) is a type II ribosome-inactivating protein, which inhibits the protein biosynthesis at the ribosomal level. ML-I is composed of a catalytically active A-chain with rRNA *N*-glycosidase activity and a B-chain with carbohydrate binding specificities. Using comparative solid-phase binding assays along with electrospray ionization tandem mass spectrometry, ML-I was shown to preferentially bind to terminally α 2–6-sialylated neolacto series gangliosides from human granulocytes.

Researchers across Europe (centres include Moscow, Berlin and London) have been investigating what specific properties of *Viscum album* could affect cancer cells. They have confirmed that some chemicals in European mistletoe can have anticancer properties. These properties are linked to various cytotoxic and immuno-modulatory compounds found in mistletoe, mainly the chemicals known as Viscotoxins and Mistletoe Lectins.