

## Product datasheet for **AM02270PU-S**

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

#### Product data:

|                        |  |
|------------------------|--|
| Product Type:          | Primary Antibodies   |
| Clone Name:            | 2G8-F7   |
| Applications:          | ELISA  |
| Recommended Dilution:  | <b>ELISA.</b>  |
| Host:                  | Mouse  |
| Isotype:               | IgM  |
| Clonality:             | Monoclonal   |
| Immunogen:             | Recombinant Mistletoe Lectin   |
| Specificity:           | Recognizes recombinant Mistletoe Lectin.   |
| Formulation:           | PBS, pH 7.4<br>State: Purified<br>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.<br>After reconstitution store the antibody undiluted at 2-8°C for one month<br>or (in aliquots) at -20°C long term.<br>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  $\alpha$ 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.