

AM26131PU-N**Monoclonal Antibody to Mx1 - Aff - Purified**

Alternate names:	Mx1 protein
Quantity:	0.2 mg
Concentration:	0.4 mg/ml (after reconstitution)
Background:	Mx proteins are cytoplasmic proteins induced by type-1 interferons (α and β) in leukocytes. However, there is a baseline level of expression even in the absence of viral infection. In humans, mainly monocytes and lymphocytes have been shown to express the Mx gene, whereas Mx expression is low in granulocytes. Mx proteins are high molecular weight GTPases of 70 - 80kD which belong to the dynamin superfamily. Mx proteins have a strong propensity to aggregate and form homooligomers. A unique property is their antiviral activity against many RNA viruses.
Host / Isotype:	Mouse / IgG1
Clone:	AM39
Immunogen:	Recombinant Porcine Mx1 protein Remarks: The epitope has not been fully characterized.
Format:	State: Lyophilized purified Ig fraction Purification: Affinity Chromatography Buffer System: Stock solution contains PBS, pH 7.2 with 5 mg/ml BSA as a stabilizer and 0.09% Sodium Azide as a preservative Reconstitution: Restore by adding 0.5 ml distilled water.
Applications:	ELISA. Western blot. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This Monoclonal antibody AM39 recognizes the Porcine Mx1 protein. Species: Bovine, Porcine. Other species not tested.
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Product Citations:	Purchased from Acris: 1. Borrego B, Rodríguez-Pulido M, Revilla C, Álvarez B, Sobrino F, Domínguez J, et al. Synthetic RNAs Mimicking Structural Domains in the Foot-and-Mouth Disease Virus Genome Elicit a Broad Innate Immune Response in Porcine Cells Triggered by RIG-I and TLR Activation. <i>Viruses</i> . 2015 Jul 17;7(7):3954-73. doi: 10.3390/v7072807. PubMed PMID: 26193305.
General Readings:	1. Haller O, Kochs G. Interferon-induced mx proteins: dynamin-like GTPases with antiviral activity. <i>Traffic</i> . 2002 Oct;3(10):710-7. PubMed PMID: 12230469.

Pictures:

Western Blot with anti-Porcine MX1 Protein Monoclonal Antibody Cat.-No AM26131PU-N.

- a) Molecular Weight standards (kD)
- b) Bovine Serum Albumin (BSA)
- c) Porcine Leukocytes extract
- d) Recombinant Porcine Mx1
- e) Lane c developed with AM39
- f) Lane d developed with AM39

