
Monoclonal Antibody To Porcine Mx1 Protein

Marker for Viral Infection

Monoclonal antibody AM39 recognizes the porcine Mx1 protein. 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 homo-oligomers. A unique property is their antiviral activity against many RNA viruses.

Product number: T-3501

Clone: AM39

Lot: 02PO1808

TECHNICAL AND ANALYTICAL CHARACTERISTICS:

Host species, subclass: Mouse IgG1 kappa

Quantity: 200 μ g

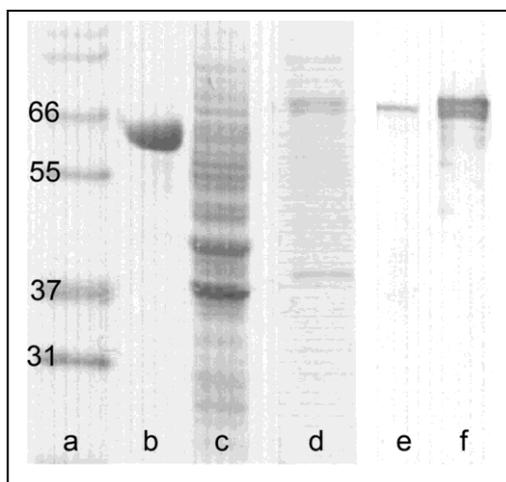
Format: Affinity purified, liquid. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.09% sodium azide as a preservative.

Stability: Original vial: 1 year at 4° - 8°C

Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.

Applications: Tested for ELISA, IHC, and Western Blot.

Western Blot with monoclonal antibody AM39:



a) molecular weight standards (kD)

b) bovine serum albumin (BSA)

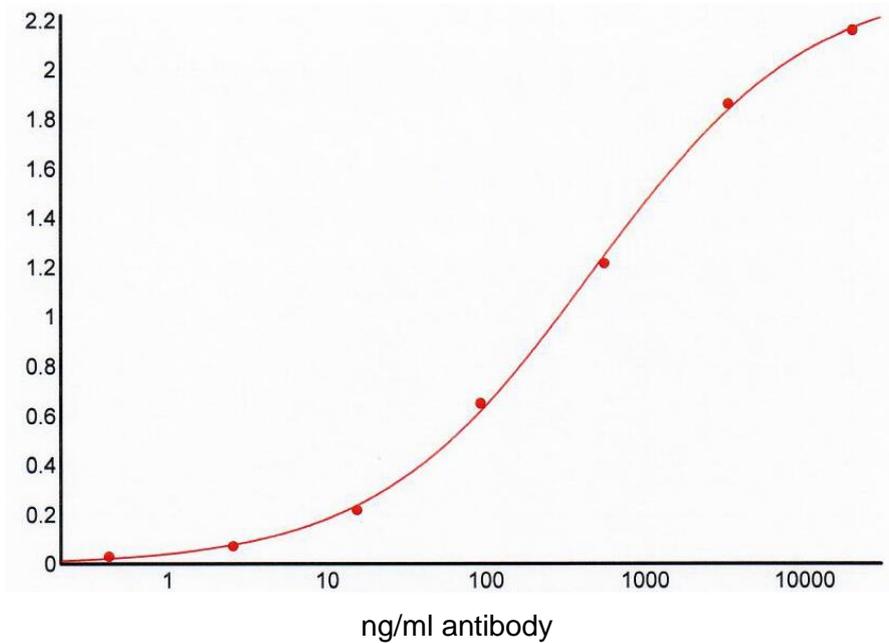
c) porcine leukocyte extract

d) recombinant porcine Mx1

e) lane c developed with AM39

f) lane d developed with AM39

Titration with monoclonal antibody AM39 against recombinant porcine Mx:



Immunogen:	Recombinant porcine Mx1 protein
Antigen, epitope:	The epitope has not been fully characterized.
Specificity:	Pig: Mx1 protein

Selected references

O. Haller & G. Kochs: Interferon-Induced Mx Proteins: Dynamin-Like GTPases with Antiviral Activity. *Traffic* 3: 710-17 (2002). Review Article.

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