

## Datasheet: MCA2833

<b>Description:</b>	MOUSE ANTI VACCINIA VIRUS
<b>Specificity:</b>	VACCINIA VIRUS
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	TV43
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.2 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Viral
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Live dry smallpox vaccine.
<b>RRID</b>	AB_10672877
<b>Specificity</b>	<b>Mouse anti Vaccinia Virus antibody, clone TV43</b> recognizes the Vaccinia virus, a large poxvirus. Poxviruses are DNA viruses that replicate in the cytoplasm of the host cell and therefore need a

large genome to encode for the various proteins involved in DNA replication and transcription. Vaccinia virus infection is very mild and generally causes no symptoms in healthy individuals. Vaccinia infection initiates immune responses that also protects against smallpox, a much more severe disease with a high mortality rate. Vaccinia is best known for its use as a vaccine against smallpox, which was officially declared eradicated in 1979 ([Bremant & Arita 1980](#)). There is some concern that smallpox might be re-introduced as a biological weapon, as such it might still pose a threat to humanity ([Tegnell et al. 2002](#)).

Mouse anti Vaccinia Virus antibody, clone TV43 recognizes a ~27 kDa protein in Western blotting of the following viruses: Vaccinia virus strain Elstree, Ectromelia virus strain K-1, Cowpox virus strain Grishak. It might also recognize the same protein in the Smallpox virus.

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**Western Blotting** MCA2833 detects a band of approximately 27kDa under non-reducing conditions.

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**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
 Goat Anti Mouse IgG (STAR77...) [HRP](#)  
 Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
 Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)  
 Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
 Goat Anti Mouse IgG (STAR76...) [RPE](#)  
 Goat Anti Mouse IgG (STAR70...) [FITC](#)  
 Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
 Human Anti Mouse IgG2a (HCA037...) [FITC](#), [HRP](#)  
 Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
 Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),  
[DyLight®800](#), [FITC](#), [HRP](#)

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