

Datasheet: MCA2716

BATCH NUMBER 150415

Description:	MOUSE ANTI ASTROVIRUS
Specificity:	ASTROVIRUS
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	8E7
Isotype:	IgG1
Quantity:	1 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.

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

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Viral
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein	IgG concentration 1.0mg/ml

Concentrations

Immunogen Astrovirus type 2 expressed in LLC MK₂ cells.

External Database Links

UniProt:

[Q82446](#)

[Related reagents](#)

RRID AB_915148

Specificity

Mouse anti Astrovirus antibody, clone 8E7 recognises a genus specific epitope within the viral capsid protein of all human astrovirus serotypes. Mouse anti Astrovirus antibody, clone 8E7 does not cross-react with rotavirus (SA11), SRSV, adenovirus type 2, 40 and 41, norwalk virus 8F11, Hawaii virus, coxsackievirus types A9 and B2, calcivirus and snow mountain virus.

Astrovirus is a non-enveloped single-stranded RNA virus of the *Astroviridae* family, and a common causative agent of gastroenteritis in the young and adults ([Oishi *et al.* 1994](#)).

References

1. Geigenmüller, U. *et al.* (2002) Studies on intracellular processing of the capsid protein of human astrovirus serotype 1 in infected cells. [J Gen Virol. 83 \(Pt 7\): 1691-5.](#)
2. Geigenmüller U *et al.* (1997) Construction of a genome-length cDNA clone for human astrovirus serotype 1 and synthesis of infectious RNA transcripts. [J Virol. 71 \(2\): 1713-7.](#)
3. Lewis, T.L. *et al.* (1994) Analysis of astrovirus serotype 1 RNA, identification of the viral RNA-dependent RNA polymerase motif, and expression of a viral structural protein. [J Virol. 68 \(1\): 77-83.](#)
4. Noel, J.S. *et al.* (1995) Typing of human astroviruses from clinical isolates by enzyme immunoassay and nucleotide sequencing. [J Clin Microbiol. 33 \(4\): 797-801.](#)
5. Herrmann JE *et al.* (1988) Antigenic characterization of cell-cultivated astrovirus serotypes and development of astrovirus-specific monoclonal antibodies. [J Infect Dis. 158 \(1\): 182-5.](#)
6. Oishi, I. *et al.* (1994) A large outbreak of acute gastroenteritis associated with astrovirus among students and teachers in Osaka, Japan. [J Infect Dis. 170 \(2\): 439-43.](#)
7. Guix, S. *et al.* (2004) Apoptosis in astrovirus-infected CaCo-2 cells. [Virology. 319 \(2\): 249-61.](#)
8. Kriston, S. *et al.* (1996) Seroprevalence of astrovirus types 1 and 6 in London, determined using recombinant virus antigen. [Epidemiol Infect. 117 \(1\): 159-64.](#)
9. Guix, S. *et al.* (2004) C-terminal nsP1a protein of human astrovirus colocalizes with the endoplasmic reticulum and viral RNA. [J Virol. 78 \(24\): 13627-36.](#)
10. Sebire, N.J. *et al.* (2004) Pathology of astrovirus associated diarrhoea in a paediatric bone marrow transplant recipient. [J Clin Pathol. 57 \(9\): 1001-3.](#)
11. Caballero, S. *et al.* (2004) Structural requirements of astrovirus virus-like particles assembled in insect cells. [J Virol. 78 \(23\): 13285-92.](#)

Further Reading

1. Arias, C.F. & DuBois, R.M. (2017) The Astrovirus Capsid: A Review. [Viruses. 9 \(1\): .](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2716 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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