

Astrovirus (8E7): sc-53559

BACKGROUND

Astroviruses are uniformly small, spherical viruses which measure 28 nm in diameter and have a characteristic star-like appearance when viewed with an electron microscope. Astroviruses, which belong to the astroviridae family, have been divided into eight human species, designated human Astrovirus (HAstV)-1 through HAstV-8. Seven human Astrovirus serotypes have been identified, three of which have been fully sequenced. Astrovirus-1 represents the most common of five serotypes. Astroviruses have a positive-sense single-stranded RNA genome. Unlike the caliciviruses, astroviruses do not encode a helicase. Astrovirus infection causes gastroenteritis, a relatively mild form of rotavirus enteritis with symptoms of diarrhea, vomiting and abdominal pain, that generally persist for a few days.

REFERENCES

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SOURCE

Astrovirus (8E7) is a mouse monoclonal antibody raised against purified Astrovirus type 2.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Astrovirus (8E7) is available conjugated to agarose (sc-53559 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53559 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-53559 PE), fluorescein (sc-53559 FITC), Alexa Fluor[®] 488 (sc-53559 AF488), Alexa Fluor[®] 546 (sc-53559 AF546), Alexa Fluor[®] 594 (sc-53559 AF594) or Alexa Fluor[®] 647 (sc-53559 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-53559 AF680) or Alexa Fluor[®] 790 (sc-53559 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

Astrovirus (8E7) is recommended for detection of Astrovirus by immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)]; may cross-react with all five known serotypes of astrovirus.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

SELECT PRODUCT CITATIONS

- Tange, S., Zhou, Y., Nagakui-Noguchi, Y., Imai, T. and Nakanishi, A. 2013. Initiation of human astrovirus type 1 infection was blocked by inhibitors of phosphoinositide 3-kinase. *Virology* 453: 153.
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RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.