

## Antibody Datasheet

<b>Product Name:</b>	Mouse anti Astrovirus
<b>Clone number:</b>	AT54
<b>Isotype:</b>	Mouse IgG <sub>2a</sub>
<b>Product code:</b>	MAB12138-100
<b>Batch Number:</b>	
<b>Amount:</b>	0.1mg
<b>Concentration:</b>	1 mg/ml
<b>Buffer:</b>	Phosphate Buffered Saline pH7.4
<b>Preservative:</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Purification:</b>	The antibody was purified by affinity chromatography on protein A
<b>Specificity:</b>	This antibody is specific for <i>Astrovirus</i> . The antibody does not cross react with <i>Rotavirus</i> , <i>Adenovirus</i> , <i>Clostridium difficile</i> , <i>Cryptosporidium</i> , <i>Enterovirus</i> , <i>Escherichia coli</i> , <i>Giardia</i> , <i>Helicobacter pylori</i> , <i>Listeria monocytogenes</i> , <i>Norovirus</i> , <i>Yersinia enterocolitica</i> , <i>HAV</i> .
<b>Applications:</b>	ELISA



**Antigen background:** Astroviruses are non-enveloped, positive-sense single stranded RNA viruses that belong to the *Astroviridae* family. Originally identified in stools from infected children, astroviruses have since been found to infect numerous mammalian and avian species, and have been classified into two genera *Mamastrovirus* (MAstV) and *Avastrovirus* (AAstV) respectively ([Bosch, A](#)). Human astroviruses (HAstV), of the genera *Mamastrovirus*, predominantly infect young children below the age of 5 years, and cause mild symptoms of diarrhoea, vomiting and fever. HAstV infection can also cause gastro-intestinal illness in the elderly and in immunocompromised adults, which may be more severe and of longer duration ([Vu, DL. 2016](#)).

Initial immunological studies identified eight distinct serotypes of HAstV that cause diarrhoea in children, with serotype 1 being the most prevalent. These serotypes are referred to as classic HAstV's. Phylogenetic studies have identified two novel groups of astroviruses that also infect children. These novel HAstV's were first identified in Melbourne Australia (HAstV-MLB) and in Virginia, Nigeria, Pakistan and Nepal (HAstV-VA/HMO). Currently, very little is known about the epidemiology or pathogenesis of novel HAstV's but studies suggest that novel HAstV's may cause clinical complications, affecting the central nervous system, in immunocompromised patients ([Vu, DL. 2017](#)).

**References:** Bosch, A et al (2014). Human Astroviruses. Clin Microbiol Rev. 27(4): 1048–1074.  
Vu, DL et al (2016). Novel human astroviruses: Novel human diseases? J Clin Virol. 82:56-63  
Vu, DL et al (2017). Epidemiology of Classic and Novel Human Astrovirus: Gastroenteritis and Beyond. Viruses 9(2): 33

**Storage:** Store at +4°C for up to three months, or at -20°C for longer.  
The Antibody is shipped at ambient temperature.  
Avoid repeated freeze/thaw cycles.

