

## Polyclonal Antibody to Rotavirus NCDV (all antigens) -FITC-

<b>Catalog No.:</b>	BP1055F
<b>Quantity:</b>	1 ml
<b>Concentration:</b>	4-5 mg/ml (OD280 nm, E0.1% = 1.4)
<b>Background:</b>	<p>Rotaviruses, members of the family Reoviridae, are a major cause of diarrhoea in young mammals. Rotavirus infections also result in economic losses in agriculture due to diarrhoea in calf, pig, sheep, and poultry rearing. Nebraska Calf Diarrhea Virus (NCDV) can affect calves up to 30 days of age or older. Diarrhoea begins 2 to 3 days after exposure. Diagnosis is by history, lesions (ulcers on the tongue, lips, and mouth) and diagnostic laboratory tests. Mortality rates may be as high as 50 percent, depending on the secondary bacteria present.</p> <p>Human rotaviruses, the major aetiological agents of severe infantile diarrhoea worldwide, display surprisingly diverse and complex serotypic specificities. Rotaviruses are 70 nm, non enveloped viruses comprised of a triple layered protein capsid; Outer capsid proteins are VP4 and VP7, Inner capsid -VP6 and Core -VP2. The immunity acquired from exposure to rotavirus appears to be type specific following initial infection; therefore, multiple serotypes of rotavirus mean multiple opportunities for infection. The combination of animal reservoirs for the virus and rotavirus gene reassortment provides the potential for dramatic genetic shifts (similar to influenza virus) which could give rise to altered host ranges and viral virulence.</p>
<b>Host:</b>	Goat
<b>Immunogen:</b>	Purified bovine Rotavirus (Nebraska Calf Diarrhoea Virus).
<b>Format:</b>	<p><b>State:</b> Liquid purified Ig fraction.</p> <p><b>Buffer System:</b> 0.01 M PBS, pH 7.2 containing 10 mg/ml BSA and 0.09% sodium azide as a preservative.</p> <p><b>Label:</b> FITC – Covalently coupled with high purity Isomer I of fluorescein isothiocyanate Care is taken to ensure complete removal of any free fluorescein from the final product</p>
<b>Applications:</b>	Direct Immunofluorescence (1/10-1/50). Acetone fixation is recommended prior to staining. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	<p>This antibody recognises ICPs and late structural (virion) antigens.</p> <p>Cross reactivity is &gt; 90% with human rotaviruses.</p> <p>Uninfected cell reactivity is negative against Hep-2 cells and WI-38 cells by indirect immunofluorescence.</p>

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)

**Storage:**

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
This product is photosensitive and should be stored under subdued light.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

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