

Product Specification Sheet

**Rabies Virus antiserum**

□ Cat. # RBV12-S      Anti-Rabies Virus antiserum (hyper immune sera)      **SIZE:** 100 ul

The rabies virus is a member of the Lyssavirus genus, which have helical symmetry, so their infectious particles are approximately cylindrical in shape. They are characterized by an extremely broad host spectrum ranging from plants to insects and mammals; human-infecting viruses more commonly have cubic symmetry and take shapes approximating regular polyhedron. The virus has a bullet like shape with a length of about 180 nm and a cross-sectional diameter of about 75 nm. One end is rounded or conical and the other end is planar or concave. The lipoprotein envelope carries knob-like spikes composed of Glycoprotein G. Spikes do not cover the planar end of the virion (virus particle). Beneath the envelope is the membrane or matrix (M) protein layer which may be invaginated at the planar end. The core of the virion consists of helically arranged ribonucleoprotein

Rabies is a disease that causes acute encephalitis (inflammation of the brain) in warm-blooded animals. It is zoonotic (i.e., transmitted by animals), most commonly by a bite from an infected animal but occasionally by other forms of contact. Rabies is almost invariably fatal if post-exposure prophylaxis is not administered prior to the onset of severe symptoms. Early-stage symptoms of rabies are malaise, headache and fever, progressing to acute pain, violent movements, uncontrolled excitement, depression, and hydrophobia. Finally, the patient may experience periods of mania and lethargy, eventually leading to coma. The primary cause of death is usually respiratory insufficiency. Worldwide, the vast majority of human rabies cases (approximately 97%) come from dog bites.

Rapid and accurate laboratory diagnosis of rabies in humans and other animals are essential for timely administration of post exposure prophylaxis. The nature of rabies disease dictates that laboratory tests be standardized, rapid, sensitive, specific, economical, and reliable. The standard test for rabies testing is dFA.

**Source of Antigen and Antibodies**

<b>Antigen</b>	Rabies virus
<b>Antibody host/type</b>	rabbit, polyclonal antiserum #RBV12-S supplied in 0.05% azide in liquid or lyophilized
<b>Secondary Ab</b>	Goat Anti-rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates also available)
<b>Negative Control Ab</b>	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control .

**Form & Storage**

**Antiserum**

- 100 ul/vial
- Reconstitute powder in 100 ul water

**Storage**

**Short-term:** unopened, undiluted vials for less than a week at 4oC.

**Long-term:** at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

**Stability:** 6-12 months at -20oC or below.

**Recommended Usage**

Rabies virus antibody reacts with rabies virus in ELISA. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested.

**References:** Tordo N (1986) PNAS 83, 3914-3918; Srivastava AK (2004) Neurol. Ind. 52, 132-133; Rupprecht CE (2006) *Expert Review of Anti-infective Therapy* 4 (6): 1021-1038; Wong D (2009) Virology

\*This product is for In vitro research use only.

**Related material available from ADI**

- 600-010-DRV Dog Anti-Rabies Virus IgG ELISA Kit
- 600-020-HRV Human Anti-Rabies Virus IgG ELISA Kit,
- 600-030-MRG Mouse Anti-Rabies Virus IgG ELISA Kit,
- 600-040-RRG Rabbit Anti-Rabies Virus IgG ELISA Kit,
- 600-045-RRM Rabbit Anti-Rabies Virus IgM ELISA Kit,
- 600-050-HRG Horse Anti-Rabies Virus IgG ELISA Kit,
- 600-060-CRG Canine rabies virus antibody ELISA kit
- 600-070-CRG Monkey Rabies Virus antibody ELISA
- AE-200130-2 Swine/Porcine Pseudorabies Antibody ELISA
- AE-200135-2 Swine/Porcine Pseudorabies Virus IgE Antibody Distinguishing kit
- RBV11-M Mouse monoclonal Anti-Rabies Virus IgG, aff pure
- RBV13-S Anti-Rabies Virus antiserum
- RBV14-M Mouse monoclonal Anti-Rabies Virus glycoprotein IgG, aff pure

RBV12-S      131008A