

Product Specification Sheet

Anti-Rabies Virus glycoprotein antibodies and positive controls

| | | |
|--------------------|---|---------------------|
| □ Cat. # RBVGP11-S | Rabbit polyclonal Anti-Rabies Virus glycoprotein antiserum | SIZE: 100 ul |
| □ Cat. # RBVGP11-C | Rabies Virus Glycoprotein (~58 kda, RVG) control for western blot | 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

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

| | |
|----------------------------|---|
| Antigen | Recombinant purified Rabies virus glycoprotein ~58 kda |
| Antibody host/type | Rabbit, polyclonal antiserum in 0.1% azide, Cat # RBVGP11-S |
| Secondary Ab | Goat Anti-rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates also available) |
| Negative Control Ab | # 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control |

Recombinant rabies virus glycoprotein (>98% pure, ~58 Kda, His-tag), Western blot +ve control (**Cat # RBVGP11-C**) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of RBVGP11-C for good visibility with antibody Cat # **RBVGP11-S** or **RBV14-M**. Store at -20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve by warming before taking it from the stock. It should be heated once prior to loading on gels. If the product has been stored for several weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the RBVGP11-C solution prior to heating and loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. Do not freeze, thaw, or heat repeatedly.

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 glycoprotein antibody reacts with a glycoprotein of rabies viruses. More than 20 different strains from 4 serogroups, including CVS, Lagosbat, Mokola, Duwenhage were positive in neutralization reaction. Specific antibody titer in indirect ELISA is 1.5×10^3 . Detection of rabies and rabies related virus. Suitable for use in immunohistochemistry (formalin-fixed paraffin embedded sections), indirect ELISA, and immunofluorescence. Other applications have not been tested. Recombinant virus glycoprotein is available for control studies (RBVGP11-C).

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 |
| RBV14-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 |

RBVGP11-S 140905A

Alpha Diagnostic Intl Inc., 6203 Woodlake Center Dr, San Antonio, TX 78244, USA