

Product Specification Sheet

Anti-Rabies Virus glycoprotein antibodies and positive controls

Cat. # RBV14-M	Mouse Monoclonal Anti-Rabies Virus glycoprotein IgG	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	Rabies virus glycoprotein
Antibody host/type	Mouse, monoclonal affinity purified IgG2a, Cat # RBV14-M
Secondary Ab	Cat # 40320, rabbit anti-mouse IgG-HRP (AP, biotin, FITC conjugates also available) or Goat Anti-mouse IgG1-HRP (#40216)
Negative Control Ab	Non-immune mouse IgG (Cat # 20008-1) isotype control be used as -ve control for ELISA, WB, IHC etc.

Isotype Controls for mouse IgG2a

Catalog#	ProdDescription
20102-102	Mouse IgG2a isotype control, purified
20102-102-B	Mouse IgG2a-Biotin conjugate (isotype control)
20102-102-F	Mouse IgG2a-FITC conjugate (isotype control)
20102-102-FP	Mouse IgG2a-FITC-PE conjugate
20102-102-HP	Mouse IgG2a-HRP conjugate (isotype control)
20102-102-PC5	Mouse IgG2a-PE-Cy5 conjugate (isotype control)
20102-102-PE	Mouse IgG2a-PE conjugate (isotype control)

Recombinant rabies virus glycoprotein (protein accession # P32550; >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

Aff Pure (purified)

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

RBV14-M 120710A