CLAIMS

1. An isolated antibody that binds to rabies virus glycoprotein wherein:

   a. the antibody comprises one or more heavy chain CDR amino acid sequences selected from the group consisting of DYIML (SEQ ID NO:56), DIYPYYGSTSYNLKFKG (SEQ ID NO:57), QGGDGNYVLFDY (SEQ ID NO:58), GFAMS (SEQ ID NO:59), TISSGGTYTYSPDSVMG (SEQ ID NO:60), and RLRRNYYSMDY (SEQ ID NO:61); and

   b. the antibody comprises one or more light chain CDR amino acid sequences selected from the group consisting of KASQNVGTTVA (SEQ ID NO:62), SASYRYS (SEQ ID NO:63), QQYNSYPFT (SEQ ID NO:64), KSTKSLLNSDGFTYLD (SEQ ID NO:65), LVSNRFS (SEQ ID NO:66), and FQSNYLPFT (SEQ ID NO:67).

2. The isolated antibody of claim 1, wherein the antibody comprises heavy chain CDR sequences: DYIML (SEQ ID NO:56), DIYPYYGSTSYNLKFKG (SEQ ID NO:57), and QGGDGNYVLFDY (SEQ ID NO:58) and comprises light chain CDR sequences: KASQNVGTTVA (SEQ ID NO:62), SASYRYS (SEQ ID NO:63), and QQYNSYPFT (SEQ ID NO:64).

3. The isolated antibody of claim 1, wherein the antibody comprises heavy chain CDR sequences: GFAMS (SEQ ID NO:59), TISSGGTYTYSPDSVMG (SEQ ID NO:60), and RLRRNYYSMDY (SEQ ID NO:61) and comprises light chain CDR sequences: KSTKSLLNSDGFTYLD (SEQ ID NO:65), LVSNRFS (SEQ ID NO:66), and FQSNYLPFT (SEQ ID NO:67).

4. An isolated antibody that binds to rabies virus glycoprotein, wherein the antibody has the same antigen binding specificity as an antibody produced by a hybridoma cell line selected from the group consisting of CGMCC Accession Nos. 4805 and 4806.

5. The isolated antibody of any one of claims 1-4, wherein the antibody is capable of reducing the infectivity of rabies virus and does not interfere with the immunogenicity of a rabies vaccine.

6. The isolated antibody of any one of claims 1-5, wherein the antibody is selected from a group consisting of a monoclonal antibody, a murine antibody, a chimeric antibody, and a humanized antibody.

7. A pharmaceutical composition comprising one or more antibodies of any of claims 1-6 and a pharmaceutically acceptable carrier.

8. The pharmaceutical composition of claim 7 comprising a cocktail of antibodies wherein a first antibody comprises heavy chain CDR sequences: DYIML (SEQ ID NO:56), DIYPYYGSTSYNLKFKG (SEQ ID NO:57), and QGGDGNYVLFDY (SEQ ID NO:58) and comprises light chain CDR sequences: KASQNVGTTVA (SEQ ID NO:62), SASYRYS (SEQ ID NO:63), and QQYNSYPFT (SEQ ID NO:64); and wherein a second antibody comprises heavy chain CDR sequences: GFAMS (SEQ ID NO:59), TISSGGTYTYSPDSVMG (SEQ ID NO:60), and RLRRNYYSMDY (SEQ ID NO:61) and comprises light chain CDR sequences: KSTKSLLNSDGFTYLD (SEQ ID NO:65), LVSNRFS (SEQ ID NO:66), and FQSNYLPFT (SEQ ID NO:67).

9. The use of the antibody of any one of claims 1-6 in the manufacture of a medicament for treating rabies infection in a subject in need thereof.

10. The use of claim 9, wherein the antibody reduces the infectivity of rabies virus but does not interfere with the immunogenicity of a rabies vaccine.

11. A kit for treating rabies infection in a subject in need thereof comprising one or more antibodies that bind to rabies virus glycoprotein and instructions for use of the antibody, wherein:

a. the antibody comprises one or more heavy chain CDR amino acid sequences selected from the group consisting of DYIML (SEQ ID NO:56), DIYPYYGSTSYNLKFKG (SEQ ID NO:57), QGGDGNYVLFDY (SEQ ID NO:58), GFAMS (SEQ ID NO:59), TISSGGTYTYSPDSVMG (SEQ ID NO:60), and RLRRNYYSMDY (SEQ ID NO:61); and

b. the antibody comprises one or more light chain CDR amino acid sequences selected from the group consisting of KASQNVGTTVA (SEQ ID NO:62), SASYRYS

(SEQ ID NO:63), QQYNSYPFT (SEQ ID NO:64), KSTKSLLNSDGFTYLD (SEQ ID NO:65), LVSNRFS (SEQ ID NO:66), and FQSNYLPFT (SEQ ID NO:67).

12. A kit for detecting rabies virus in a sample comprising an antibody that binds to rabies virus glycoprotein and instructions for use of the antibody, wherein:

a. the antibody comprises one or more heavy chain CDR amino acid sequences selected from the group consisting of DYIML (SEQ ID NO:56), DIYPYYGSTSYNLKFKG (SEQ ID NO:57), QGGDGNYVLFDY (SEQ ID NO:58), GFAMS (SEQ ID NO:59), TISSGGTYTYSPDSVMG (SEQ ID NO:60), and RLRRNYYSMDY (SEQ ID NO:61); and

b. the antibody comprises one or more light chain CDR amino acid sequences selected from the group consisting of KASQNVGTTVA (SEQ ID NO:62), SASYRYS (SEQ ID NO:63), QQYNSYPFT (SEQ ID NO:64), KSTKSLLNSDGFTYLD (SEQ ID NO:65), LVSNRFS (SEQ ID NO:66), and FQSNYLPFT (SEQ ID NO:67).

13. The kit of claim 12, wherein the antibody is coupled to one or more detectable labels.

14. The kit of claim 12, further comprising a secondary antibody that binds specifically to the rabies virus glycoprotein antibody.

15. An isolated nucleic acid encoding the antibody of any one of claims 1-6.

16. A host cell comprising the isolated nucleic acid of claim 15.

CLAIMS

1. An isolated antibody that binds to rabies virus glycoprotein wherein:

a. the antibody comprises heavy chain CDR sequences: DYIML (SEQ ID NO:56), DIYPYYGSTSYNLKFKG (SEQ ID NO:57), and QGGDGNYVLFDY (SEQ ID NO:58) and comprises light chain CDR sequences: KASQNVGTTVA (SEQ ID NO:62), SASYRYS (SEQ ID NO:63), and QQYNSYPFT (SEQ ID NO:64); or

b. the antibody comprises heavy chain CDR sequences: GFAMS (SEQ ID NO:59), TISSGGTYTYSPDSVMG (SEQ ID NO:60), and RLRRNYYSMDY (SEQ ID NO:61) and comprises light chain CDR sequences: KSTKSLLNSDGFTYLD (SEQ ID NO:65), LVSNRFS (SEQ ID NO:66), and FQSNYLPFT (SEQ ID NO:67).

2. An isolated antibody that binds to rabies virus glycoprotein, wherein the antibody has the same antigen binding specificity as an antibody produced by a hybridoma cell line selected from the group consisting of CGMCC Accession Nos. 4805 and 4806.

3. The isolated antibody of claim 1 or 2, wherein the antibody is capable of reducing the infectivity of rabies virus and does not interfere with the immunogenicity of a rabies vaccine.

4. The isolated antibody of any one of claims 1, 2, or 3, wherein the antibody is selected from a group consisting of a monoclonal antibody, a murine antibody, a chimeric antibody, and a humanized antibody.

5. A pharmaceutical composition comprising one or more antibodies of any of claims 1 or 2-4and a pharmaceutically acceptable carrier.

6. The pharmaceutical composition of claim 5 comprising a cocktail of antibodies wherein a first antibody comprises heavy chain CDR sequences: DYIML (SEQ ID NO:56), DIYPYYGSTSYNLKFKG (SEQ ID NO:57), and QGGDGNYVLFDY (SEQ ID NO:58) and comprises light chain CDR sequences: KASQNVGTTVA (SEQ ID NO:62), SASYRYS (SEQ ID NO:63), and QQYNSYPFT (SEQ ID NO:64); and wherein a second antibody comprises heavy chain CDR sequences: GFAMS (SEQ ID NO:59), TISSGGTYTYSPDSVMG (SEQ ID NO:60), and RLRRNYYSMDY (SEQ

ID NO:61) and comprises light chain CDR sequences: KSTKSLLNSDGFTYLD (SEQ ID NO:65), LVSNRFS (SEQ ID NO:66), and FQSNYLPFT (SEQ ID NO:67).

7. The use of the antibody of any one of claims 1 or 2-4 in the manufacture of a medicament for treating rabies infection in a subject in need thereof.

8. The use of claim 7, wherein the antibody reduces the infectivity of rabies virus but does not interfere with the immunogenicity of a rabies vaccine.

9. A kit for treating rabies infection in a subject in need thereof comprising one or more antibodies that bind to rabies virus glycoprotein and instructions for use of the antibody, wherein:

a. the antibody comprises heavy chain CDR sequences: DYIML (SEQ ID NO:56), DIYPYYGSTSYNLKFKG (SEQ ID NO:57), and QGGDGNYVLFDY (SEQ ID NO:58) and comprises light chain CDR sequences: KASQNVGTTVA (SEQ ID NO:62), SASYRYS (SEQ ID NO:63), and QQYNSYPFT (SEQ ID NO:64); or

b. the antibody comprises heavy chain CDR sequences: GFAMS (SEQ ID NO:59), TISSGGTYTYSPDSVMG (SEQ ID NO:60), and RLRRNYYSMDY (SEQ ID NO:61) and comprises light chain CDR sequences: KSTKSLLNSDGFTYLD (SEQ ID NO:65), LVSNRFS (SEQ ID NO:66), and FQSNYLPFT (SEQ ID NO:67).

10. A kit for detecting rabies virus in a sample comprising an antibody that binds to rabies virus glycoprotein and instructions for use of the antibody, wherein:

a. the antibody comprises heavy chain CDR sequences: DYIML (SEQ ID NO:56), DIYPYYGSTSYNLKFKG (SEQ ID NO:57), and QGGDGNYVLFDY (SEQ ID NO:58) and comprises light chain CDR sequences: KASQNVGTTVA (SEQ ID NO:62), SASYRYS (SEQ ID NO:63), and QQYNSYPFT (SEQ ID NO:64); or

b. the antibody comprises heavy chain CDR sequences: GFAMS (SEQ ID NO:59), TISSGGTYTYSPDSVMG (SEQ ID NO:60), and RLRRNYYSMDY (SEQ ID NO:61) and comprises light chain CDR sequences: KSTKSLLNSDGFTYLD (SEQ ID NO:65), LVSNRFS (SEQ ID NO:66), and FQSNYLPFT (SEQ ID NO:67).

11. The kit of claim 10, wherein the antibody is coupled to one or more detectable labels.

12. The kit of claim 10, further comprising a secondary antibody that binds specifically to the rabies virus glycoprotein antibody.

13. An isolated nucleic acid encoding the antibody of any one of claims 1 or 2-4.

14. A host cell comprising the isolated nucleic acid of claim 13.