What is claimed is:

1. An isolated human antibody or antigen-binding fragment thereof that binds specifically to RSV-F, wherein the antibody or antigen-binding fragment comprises three heavy chain complementarity determining regions (CDRs) (HCDR1, HCDR2 and HCDR3) contained within any one of the heavy chain variable region (HCVR) amino acid sequences selected from the group consisting of SEQ ID NO: 2, 18, 34, 50, 66, 82, 98, 114, 130, 146, 162, 178, 194, 210, 226, 242, 258, 274, 290, 306, 322 and 338; and comprises three light chain CDRs (LCDR1, LCDR2 and LCDR3) contained within any one of the light chain variable region (LCVR) amino acid sequences selected from the group consisting of SEQ ID NOs: 10, 26, 42, 58, 74, 90, 106, 122, 138, 154, 170, 186, 202, 218, 234, 250, 266, 282, 298, 314, 330 and 346.

2. The isolated human antibody or antigen-binding fragment of claim 1, comprising:

(a) a HCDR1 domain having an amino acid sequence selected from the group consisting of SEQ ID NOs: 4, 20, 36, 52, 68, 84, 100, 116, 132, 148, 164, 180, 196, 212, 228, 244, 260, 276, 292, 308, 324 and 340**;**

(b) a HCDR2 domain having an amino acid sequence selected from the group consisting of SEQ ID NOs: 6, 22, 38, 54, 70, 86, 102, 118, 134, 150, 166, 182, 198, 214, 230, 246, 262, 278, 294, 310, 326 and 342;

(c) a HCDR3 domain having an amino acid sequence selected from the group consisting of SEQ ID NOs: 8, 24, 40, 56, 72, 88, 104, 120, 136, 152, 168, 184, 200, 216, 232, 248, 264, 280, 296, 312, 328, and 344;

(d) a LCDR1 domain having an amino acid sequence selected from the group consisting of SEQ ID NOs: 12, 28, 44, 60, 76, 92, 108, 124, 140, 156, 172, 188, 204, 220, 236, 252, 268, 284, 300, 316, 332 and 348;

(e) a LCDR2 domain having an amino acid sequence selected from the group consisting of SEQ ID NOs: 14, 30, 46, 62, 78, 94, 110, 126, 142, 158, 174, 190, 206, 222, 238, 254, 270, 286, 302, 318, 334 and 350; and

(f) a LCDR3 domain having an amino acid sequence selected from the group consisting of SEQ ID NOs: 16, 32, 48, 64, 80, 96, 112, 128, 144, 160, 176, 192, 208, 224, 240, 256, 272, 288, 304, 320, 336 and 352.

3. The isolated antibody of claim 1, wherein the antibody does not cross-compete for binding to RSV-F with palivizumab, or AM-22.

4. The isolated human antibody of claim 1, wherein the antibody does not bind to an epitope on RSV-F ranging from amino acid residue 255 to amino acid residue 276 of SEQ ID NO: 354.

5. The isolated antibody or antigen-binding fragment thereof of claim 1, wherein the antibody is a human recombinant monoclonal antibody.

6. The isolated antibody or antigen-binding fragment thereof of claim 1, wherein the antibody or antigen-binding fragment thereof interacts with an amino acid sequence comprising amino acid residues ranging from about position 161 to about position 188 of SEQ ID NO: 354.

7. The isolated antibody or antigen-binding fragment thereof of claim 1, wherein the antibody or antigen-binding fragment thereof interacts with either the serine at position 173 of SEQ ID NO: 354, or the threonine at position 174 of SEQ ID NO: 354, or both the serine at position 173 of SEQ ID NO: 354 and the threonine at position 174 of SEQ ID NO: 354.

8. The isolated antibody or antigen-binding fragment thereof of claim 1, wherein the antibody or antigen-binding fragment comprises a heavy chain variable region (HCVR) amino acid sequence selected from the group consisting of SEQ ID NO: 2, 18, 34, 50, 66, 82, 98, 114, 130, 146, 162, 178, 194, 210, 226, 242, 258, 274, 290, 306, 322 and 338.

9. The isolated antibody or antigen-binding fragment thereof of claim 1, wherein the antibody or antigen-binding fragment comprises a light chain variable region (LCVR) amino acid sequence selected from the group consisting of SEQ ID NOs: 10, 26, 42, 58, 74, 90, 106, 122, 138, 154, 170, 186, 202, 218, 234, 250, 266, 282, 298, 314, 330 and 346.

10. The isolated antibody or antigen-binding fragment of claim 1, comprising a HCVR/LCVR amino acid sequence pair selected from the group consisting of SEQ ID NOs: 2/10, 18/26, 34/42, 50/58, 66/74, 82/90, 98/106, 114/122, 130/138, 146/154, 162/170, 178/186, 194/202, 210/218, 226/234, 242/250, 258/266, 274/282, 290/298, 306/314, 322/330 and 338/346.

11. The isolated antibody or antigen-binding fragment of claim 10, comprising a HCVR/LCVR amino acid sequence pair selected from the group consisting of SEQ ID NOs: 274/282 and 338/346.

12. The isolated antibody or antigen-binding fragment of claim 11, comprising the HCVR/LCVR amino acid sequence pair of SEQ ID NOs: 274/282.

13. The isolated antibody or antigen-binding fragment thereof of claim 1, wherein the antibody or the antigen-binding fragment thereof demonstrates the ability to significantly reduce the lung viral load in a mouse model of RSV infection when administered at a dose ranging from about 0.05 mg/kg to about 0.15 mg/kg.

14. The isolated antibody or an antigen-binding fragment thereof of claim 1, wherein the antibody or the antigen-binding fragment thereof demonstrates a 1-2 logs greater reduction of nasal and/or lung viral titers as compared to palivizumab in a cotton rat model of RSV infection when administered at a dose ranging from about 0.62 mg/kg to about 5.0 mg/kg.

15. The isolated antibody or an antigen-binding fragment thereof of claim 1, wherein the antibody or the antigen-binding fragment thereof demonstrates an ED_{99} of about 0.15 mg/kg or less when administered in a mouse model of RSV subtype A infection.

16. The isolated antibody or an antigen-binding fragment thereof of claim 1, wherein the antibody or the antigen-binding fragment thereof demonstrates an ED_{99} of about 0.62 mg/kg or less when administered in a cotton rat model of RSV subtype A infection.

17. The isolated antibody or an antigen-binding fragment thereof of claim 1, wherein the antibody or the antigen-binding fragment thereof demonstrates an ED_{99} of about 2.5 mg/kg or less when administered in a cotton rat model of RSV subtype B infection.

18. The isolated antibody or an antigen-binding fragment thereof of claim 1, wherein the antibody or the antigen-binding fragment thereof demonstrates an ED_{99} that is about 2 to 3 fold lower than the ED_{99} for palivizumab or motavizumab.

19. The isolated antibody or an antigen-binding fragment thereof of claim 1, wherein the antibody or the antigen-binding fragment thereof demonstrates a neutralization

potency against one or more subtype A laboratory strains of RSV that is about a 15 to 17 fold improvement over palivizumab, or demonstrates a neutralization potency against one or more subtype A clinical strains of RSV that is about 10 to 22 fold improvement over palivizumab.

20. The isolated antibody or an antigen-binding fragment thereof of claim 1, wherein the antibody or the antigen-binding fragment thereof demonstrates a neutralization potency against one or more subtype B laboratory strains of RSV that is about a 2 to 5 fold improvement over palivizumab.

21. The isolated antibody or an antigen-binding fragment thereof of claim 1, wherein the antibody or the antigen-binding fragment thereof demonstrates a neutralization potency against one or more subtype A laboratory strains or subtype A clinical strains of RSV that is about a 0.5 to 2 fold improvement over AM-22.

22. The isolated antibody or an antigen-binding fragment thereof of claim 1, wherein the antibody or the antigen-binding fragment thereof demonstrates a neutralization potency against one or more subtype B laboratory strains of RSV that is about a 2.5 to 17 fold improvement over AM-22.

23. The isolated antibody or an antigen-binding fragment thereof of claim 1, wherein the antibody or antigen-binding fragment thereof binds specifically to RSV-F with a K_D ranging from 1.0×10^{-7} M to 6.0×10^{-10} M, as measured by surface plasmon resonance.

24. The isolated antibody or antigen-binding fragment thereof of claim 1, wherein the antibody or antigen-binding fragment thereof has one or more of the following characteristics:

(a) is capable of neutralizing respiratory syncytial virus subtype A and subtype B strains *in vitro;*

(b) demonstrates the ability to significantly reduce the nasal and/or lung viral load *in vivo* in an animal model of RSV infection;

(c) interacts with at least one amino acid residue within SEQ ID NO: 355 or 356; or

(d) inhibits fusion of the virus to the cell.

25. An isolated nucleic acid molecule encoding an antibody or antigen-binding

fragment of claim 1.

26. An expression vector comprising the nucleic acid molecule of claim 25.

27. A host cell comprising the expression vector of claim 26.

28. A pharmaceutical composition comprising any one or more of the isolated antibodies or antigen binding fragments thereof of claim 1 and a pharmaceutically acceptable carrier.