Claims:

1. An anti-CSF-1R antibody comprising: a heavy chain, wherein the heavy chain comprises the sequence given in SEQ ID NO:23; and a light chain, wherein the light chain comprises the sequence given in SEQ ID NO:15.

2. The anti-CSF-1R antibody according to claim 1, wherein the antibody molecule is selected from the group consisting of: a complete antibody molecule having full length heavy and light chains or a fragment thereof, for example selected from the group comprising a Fab, modified Fab', Fab', $F(ab')_2$, Fv, and scFv fragment.

3. The anti-CSF-1R antibody according to claims 1 or 2 having a heavy chain comprising the sequence given in SEQ ID NO:27 and a light chain comprising the sequence given in SEQ ID NO:19.

4. The anti-CSF-1R antibody according to any one of claims 1 to 3, having an effector or a reporter molecule attached to it.

5. The anti-CSF-1R antibody according to any one of claims 1 to 4, having a binding affinity for human CSF-1R of 10pM or less than 10pM.

6. An anti-CSF-1R antibody comprising a light chain, wherein the variable domain of the light chain comprises SEQ ID NO:1 for CDR-L1, SEQ ID NO:2 for CDR-L2, and SEQ ID NO:3 for CDR-L3, and a heavy chain, wherein the variable domain of the heavy chain comprises SEQ ID NO:4 for CDR-H1, SEQ ID NO:5 for CDR-H2 and SEQ ID NO:6 for CDR-H3.

7. An isolated DNA sequence encoding the heavy and/or light chain(s) of an antibody according to any one of claims 1 to 5.

8. A cloning or expression vector comprising one or more DNA sequences according to claim 7.

9. A vector according to claim 8, wherein the vector comprises the sequences given in SEQ ID NO:28 and/or SEQ ID NO:20.

10. A host cell comprising one or more cloning or expression vectors according to claim 9.