CLAIMS

1. An isolated antibody or antigen-binding fragment thereof which reduces the cell surface expression of FGFR2 after binding to FGFR2 in cell lines SNU16 (ATCC-CRL-5974) and MFM223 (ECACC-98050130) which overexpress FGFR2 and in cell lines AN3-CA (DSMZ-ACC 267) and MFE-296 (ECACC-98031101) which express mutated FGFR2.
2. An isolated antibody or antigen-binding fragment thereof specifically binding to the extracellular N-terminal epitope (^{1}RPSFSLVEDTTLEPE^{15}) of FGFR2 as presented by SEQ ID NO:63.
3. An isolated antibody or antigen-binding fragment thereof according to claim 2 wherein binding of the antibody to the extracellular N-terminal epitope (SEQ ID NO:63) is mediated by at least one epitope residue selected from the group of residues consisting of Arg 1, Pro 2, Phe 4, Ser 5, Leu 6, and Glu 8.
4. An isolated antibody or antigen-binding fragment thereof according to any one of claims 2 - 3 wherein the antibody or antigen-binding fragment thereof loses more than 50% of its ELISA signal by changing of at least one of the amino acid residues in the N-terminal epitope (^{1}RPSFSLVEDTTLEPE^{15}) of FGFR2 into an Alanine
    a. said residue selected from the group Pro 2, Leu 6 and Glu 8, or
    b. said residue selected from the group Arg 1, Pro 2, Phe 4 and Ser 5.
5. The antibody or antigen-binding fragment according to any one of claims 1 to 4, wherein the antibody or antigen-binding fragment competes in binding to FGFR2 with at least one antibody selected from the group "M048-D01", "M047-D08", "M017-B02", "M021-H02", "M054-A05", "M054-D03", "TPP-1397", "TPP-1398", "TPP-1399", "TPP-1400", "TPP-1401", "TPP-1402", "TPP-1403", "TPP-1406", "TPP-1407", "TPP-1408", "TPP-1409", "TPP-1410", "TPP-1411", "TPP-1412", and "TPP-1415".

6. The antibody or antigen-binding fragment according to according to any one of claims 5, wherein the amino acid sequence of the antibody or antigen-binding fragment is at least 50%, 55%, 60% 70%, 80%, 90, or 95% identical to at least one CDR sequence of "M048-D01", "M047-D08", "M017-B02", "M021-H02", "M054-A05", "M054-D03", "TPP-1397", "TPP-1398", "TPP-1399", "TPP-1400", "TPP-1401", "TPP-1402", "TPP-1403", "TPP-1406", "TPP-1407", "TPP-1408", "TPP-1409", "TPP-1410", "TPP-1411", "TPP-1412", or "TPP-1415"., or at least 50%, 60%, 70%, 80%, 90%, 92% or 95% identical to the VH or VL sequence of "M048-D01", "M047-D08", "M017-B02", "M021-H02", "M054-A05", "M054-D03", "TPP-1397", "TPP-1398", "TPP-1399", "TPP-1400", "TPP-1401", "TPP-1402", "TPP-1403", "TPP-1406", "TPP-1407", "TPP-1408", "TPP-1409", "TPP-1410", "TPP-1411", "TPP-1412", or "TPP-1415".
7. The antibody or antigen-binding fragment according to any one of claims 5 -6, wherein the antibody or antigen-binding fragment comprises at least one CDR sequence or at least one variable heavy chain or light chain sequence as depicted in Table 9 and Table 10.
8. The antibody or antigen-binding fragment according to claim 1 to 7 comprising
    a. the variable heavy chain CDR sequences as presented by SEQ ID NO: 5-7 and the variable light chain CDR sequences presented by SEQ ID NO: 8-10, or
    b. the variable heavy chain CDR sequences as presented by SEQ ID NO: 15-17 and the variable light chain CDR sequences presented by SEQ ID NO: 18-20, or
    c. the variable heavy chain CDR sequences as presented by SEQ ID NO: 25-27 and the variable light chain CDR sequences presented by SEQ ID NO: 28-30, or

d. the variable heavy chain CDR sequences as presented by SEQ ID NO: 35-37 and the variable light chain CDR sequences presented by SEQ ID NO: 38-40, or

e. the variable heavy chain CDR sequences as presented by SEQ ID NO: 45-47 and the variable light chain CDR sequences presented by SEQ ID NO: 48-50, or

f. the variable heavy chain CDR sequences as presented by SEQ ID NO: 55-57 and the variable light chain CDR sequences presented by SEQ ID NO: 58-60, or

g. the variable heavy chain CDR sequences as presented by SEQ ID NO: 75-77 and the variable light chain CDR sequences presented by SEQ ID NO: 78-80, or

h. the variable heavy chain CDR sequences as presented by SEQ ID NO: 85-87 and the variable light chain CDR sequences presented by SEQ ID NO: 88-90, or

i. the variable heavy chain CDR sequences as presented by SEQ ID NO: 95-97 and the variable light chain CDR sequences presented by SEQ ID NO: 98-100, or

j. the variable heavy chain CDR sequences as presented by SEQ ID NO: 105-107 and the variable light chain CDR sequences presented by SEQ ID NO: 108-110, or

k. the variable heavy chain CDR sequences as presented by SEQ ID NO: 115-117 and the variable light chain CDR sequences presented by SEQ ID NO: 118-120, or

l. the variable heavy chain CDR sequences as presented by SEQ ID NO: 125-127 and the variable light chain CDR sequences presented by SEQ ID NO: 128-130, or

m. the variable heavy chain CDR sequences as presented by SEQ ID NO: 135-137 and the variable light chain CDR sequences presented by SEQ ID NO: 138-140, or

n. the variable heavy chain CDR sequences as presented by SEQ ID NO: 145-147 and the variable light chain CDR sequences presented by SEQ ID NO: 148-150, or

o. the variable heavy chain CDR sequences as presented by SEQ ID NO: 155-157 and the variable light chain CDR sequences presented by SEQ ID NO: 158-160, or

p. the variable heavy chain CDR sequences as presented by SEQ ID NO: 165-167 and the variable light chain CDR sequences presented by SEQ ID NO: 168-170, or

q. the variable heavy chain CDR sequences as presented by SEQ ID NO: 175-177 and the variable light chain CDR sequences presented by SEQ ID NO: 178-180, or

r. the variable heavy chain CDR sequences as presented by SEQ ID NO: 185-187 and the variable light chain CDR sequences presented by SEQ ID NO: 188-190, or

s. the variable heavy chain CDR sequences as presented by SEQ ID NO: 195-197 and the variable light chain CDR sequences presented by SEQ ID NO: 198-200, or

t. the variable heavy chain CDR sequences as presented by SEQ ID NO: 205-207 and the variable light chain CDR sequences presented by SEQ ID NO: 208-210, or

u. the variable heavy chain CDR sequences as presented by SEQ ID NO: 215-217 and the variable light chain CDR sequences presented by SEQ ID NO: 218-220.

9. The antibody or antigen-binding fragment according to claims 1 - 8 comprising

a. a variable heavy chain sequence as presented by SEQ ID NO:1 and a variable light chain sequences as presented by SEQ ID NO:2, or

b. a variable heavy chain sequence as presented by SEQ ID NO:11 and a variable light chain sequences as presented by SEQ ID NO:12, or

c. a variable heavy chain sequence as presented by SEQ ID NO:21 and a variable light chain sequences as presented by SEQ ID NO:22, or

d. a variable heavy chain sequence as presented by SEQ ID NO:31 and a variable light chain sequences as presented by SEQ ID NO:32, or

e. a variable heavy chain sequence as presented by SEQ ID NO:41 and a variable light chain sequences as presented by SEQ ID NO:42, or

f. a variable heavy chain sequence as presented by SEQ ID NO:51 and a variable light chain sequences as presented by SEQ ID NO:52, or

g. a variable heavy chain sequence as presented by SEQ ID NO:73 and a variable light chain sequences as presented by SEQ ID NO:74, or

h. a variable heavy chain sequence as presented by SEQ ID NO:83 and a variable light chain sequences as presented by SEQ ID NO:84, or

i. a variable heavy chain sequence as presented by SEQ ID NO:93 and a variable light chain sequences as presented by SEQ ID NO:94, or

j. a variable heavy chain sequence as presented by SEQ ID NO:103 and a variable light chain sequences as presented by SEQ ID NO:104, or

k. a variable heavy chain sequence as presented by SEQ ID NO:113 and a variable light chain sequences as presented by SEQ ID NO:114, or

l. a variable heavy chain sequence as presented by SEQ ID NO:123 and a variable light chain sequences as presented by SEQ ID NO:124, or

m. a variable heavy chain sequence as presented by SEQ ID NO:133 and a variable light chain sequences as presented by SEQ ID NO:134, or

n. a variable heavy chain sequence as presented by SEQ ID NO:143 and a variable light chain sequences as presented by SEQ ID NO:144, or

o. a variable heavy chain sequence as presented by SEQ ID NO:153 and a variable light chain sequences as presented by SEQ ID NO:154, or

p. a variable heavy chain sequence as presented by SEQ ID NO:163 and a variable light chain sequences as presented by SEQ ID NO:164, or

q. a variable heavy chain sequence as presented by SEQ ID NO:173 and a variable light chain sequences as presented by SEQ ID NO:174, or

r. a variable heavy chain sequence as presented by SEQ ID NO:183 and a variable light chain sequences as presented by SEQ ID NO:184, or

s. a variable heavy chain sequence as presented by SEQ ID NO:193 and a variable light chain sequences as presented by SEQ ID NO:194, or

t. a variable heavy chain sequence as presented by SEQ ID NO:203 and a variable light chain sequences as presented by SEQ ID NO:204, or

u. a variable heavy chain sequence as presented by SEQ ID NO:213 and a variable light chain sequences as presented by SEQ ID NO:214.

10. The antibody according to any one of the preceding claims, which is an IgG antibody.

11. The antigen-binding fragment according to any one of the preceding claims, which is an scFv, Fab, Fab' fragment or a $F(ab')_2$ fragment.

12. The antibody or antigen-binding fragment according to any one of the preceding claims, which is a monoclonal antibody or antigen-binding fragment.

13. The antibody or antigen-binding fragment according to any one of the preceding claims, which is human, humanized or chimeric antibody or antigen-binding fragment.

14. An antibody-drug conjugate, comprising an antibody or antigen binding fragment thereof according to claims 1 to 13.

15. An isolated nucleic acid sequence that encodes the antibody or antigen-binding fragment according to claims 1 to 13.

16. A vector comprising a nucleic acid sequence according to claim 15.

17. An isolated cell expressing an antibody or antigen-binding fragment according to any one of the claims 1 to 13 and /or comprising a nucleic acid according to claim 15 or a vector according to claim 16.

18. An isolated cell according to claim 17, wherein said cell is a prokaryotic or an eukaryotic cell.

19. A method of producing an antibody or antigen-binding fragment according to any one of the claims 1 – 13 comprising culturing of a cell according to claim 18 and purification of the antibody or antigen-binding fragment.

20. An antibody or antigen-binding fragment according to claims 1 – 13 or an antibody-drug conjugate according to claim 14 as a medicament.

21. An antibody or antigen antigen-binding fragment according to claims 1 – 13 as a diagnostic agent.

22. An antibody or antigen-binding fragment according to claims 1 – 13 or an antibody-drug conjugate according to claim 14 as a medicament for the treatment of cancer.

23. A pharmaceutical composition comprising an antibody or antigen-binding fragment according to claims 1 – 13 or an antibody-drug conjugate according to claim 14.

24. A combination of a pharmaceutical composition according to claim 23 and one or more therapeutically active compounds.

25. A method for treating a disorder or condition associated with the undesired presence of FGFR2, comprising administering to a subject in need thereof an effective amount of the pharmaceutical composition according to claim 23 or a combination according to claim 24.

CLAIMS

1. An invention not claimed in any divisional application.