

Claims:

1. An antibody, or antigen binding fragment, which is capable of binding to TIM-3, optionally isolated, having at least one light chain variable region incorporating the following CDRs:

LC-CDR1:	SGSSSNIGNNYVS	(SEQ ID NO:47)
LC-CDR2:	GNNWRPS	(SEQ ID NO:48)
LC-CDR3:	ETWDSSLSAGV	(SEQ ID NO:49); and

 having at least one heavy chain variable region incorporating the following CDRs:

HC-CDR1:	GYAWS	(SEQ ID NO:61), or
	GGSFSGYYWS	(SEQ ID NO:52)
HC-CDR2:	EINHSGSTNYNPSLKS	(SEQ ID NO:53)
HC-CDR3:	GYVAGFDY	(SEQ ID NO:54).
2. The antibody or antigen binding fragment of claim 1, comprising a heavy chain and a light chain variable region sequence, wherein:

the heavy chain sequence has at least 70% sequence identity to the heavy chain sequence of SEQ ID NO: 50 or 51, and

the light chain sequence has at least 70% sequence identity to the light chain sequence of SEQ ID NO:45 or 46.
3. The antibody, or antigen binding fragment, of claim 1 or claim 2, wherein the antibody or antigen binding fragment is cytotoxic.
4. The antibody, or antigen binding fragment, of any one of claims 1 to 3, wherein the antibody or antigen binding fragment is effective to restore T-cell function in T-cells exhibiting T-cell exhaustion or T-cell anergy.
5. An antibody or antigen binding fragment, optionally isolated, which is capable of binding to TIM-3, which is a bispecific antibody or a bispecific antigen binding fragment comprising (i) an antigen binding fragment according to any of one of claims 1 to 4, and (ii) an antigen binding domain which is capable of binding to a target protein other than TIM-3.

6. The antibody, or antigen binding fragment, of claim 5, wherein the antigen binding domain which is capable of binding to a target protein other than TIM-3 is capable of binding to CD3 or a CD3 polypeptide.

5 7. An *in vitro* complex, optionally isolated, comprising an antibody, or antigen binding fragment, according to any one of claims 1 to 6 bound to TIM-3.

8. A composition comprising the antibody, or antigen binding fragment, of any one of claims 1 to 6 and at least one pharmaceutically-acceptable carrier.

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9. An isolated nucleic acid encoding the antibody or antigen binding fragment of any of one of claims 1 to 6.

10. A vector comprising the nucleic acid of claim 9.

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11. A host cell comprising the vector of claim 10.

12. A method for making an antibody or antigen binding fragment of any of one of claims 1 to 6 comprising culturing the host cell of claim 11 under conditions suitable for the expression of a vector encoding the antibody or antigen binding fragment, and recovering the antibody or antigen binding fragment.

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13. An antibody or antigen binding fragment according to any of one of claims 1 to 6 for use in therapy, or in a method of medical treatment.

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14. An antibody or antigen binding fragment according to any of one of claims 1 to 6 for use in the treatment of cancer or a T-cell dysfunctional disorder.

15. An antibody or antigen binding fragment according to any of one of claims 1 to 6 for use in the treatment of cancer.

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16. An antibody or antigen binding fragment according to any of one of claims 1 to 6 for use in the treatment of an infectious disease.

17. Use of an antibody or antigen binding fragment according to any of one of claims 1 to 6 in the manufacture of a medicament for use in the treatment of cancer or a T-cell dysfunctional disorder.
- 5 18. Use of an antibody or antigen binding fragment according to any of one of claims 1 to 6 in the manufacture of a medicament for use in the treatment of cancer.
- 10 19. Use of an antibody or antigen binding fragment according to any of one of claims 1 to 6 in the manufacture of a medicament for use in the treatment of an infectious disease.
- 15 20. A method, *in vitro*, of killing a cell that expresses TIM-3 comprising administering an antibody or antigen binding fragment according to any one of claims 1 to 6 to a cell that expresses TIM-3.
- 20 21. A method, *in vitro*, of enhancing T-cell function comprising administering an antibody or antigen binding fragment according to any one of claims 1 to 6 to a dysfunctional T-cell.
- 25 22. A method comprising contacting a sample containing, or suspected to contain, TIM-3 with an antibody or antigen binding fragment according to any one of claims 1 to 6 and detecting the formation of a complex of antibody, or antigen binding fragment, and TIM-3.
- 30 23. A method of diagnosing a disease or condition in a subject, the method comprising contacting, *in vitro*, a sample from the subject with an antibody, or antigen binding fragment, according to any one of claims 1 to 6 and detecting the formation of a complex of antibody, or antigen binding fragment, and TIM-3.
- 35 24. A method of selecting or stratifying a subject for treatment with a modulator of TIM-3 signalling, the method comprising contacting, *in vitro*, a sample from the subject with an antibody, or antigen binding fragment, according to any one of claims 1 to 6 and detecting the formation of a complex of antibody, or antigen binding fragment, and TIM-3.
25. Use of an antibody, or antigen binding fragment, according to any one of claims 1 to 6 for the detection of TIM-3 *in vitro*.

26. Use of an antibody, or antigen binding fragment, according to any one of claims 1 to 6 as an *in vitro* diagnostic agent.
- 5 27. A method for expanding a population of T cells, wherein T cells are contacted *in vitro* or *ex vivo* with an antibody or antigen binding fragment according to any one of claims 1 to 6.
- 10 28. A chimeric antigen receptor (CAR) comprising an antigen binding fragment according to any one of claims 1 to 6.