

8. The ICOS binding protein or antigen binding portion thereof of any one of claims 1 to 7 wherein said ICOS binding protein or antigen binding portion thereof comprises an hIgG4PE scaffold.
9. The ICOS binding protein of any one of claims 1 to 8 wherein said ICOS binding protein is a monoclonal antibody.
- 5 10. The monoclonal antibody of claim 9 wherein the monoclonal antibody is humanized.
11. The monoclonal antibody of claim 9 wherein the monoclonal antibody is fully human.
12. The monoclonal antibody of claim 9 to 11 comprising heavy chain CDRs having the amino acid sequences set forth in SEQ ID NO:1; SEQ ID NO:2; and SEQ ID NO:3 and light chain CDRs having the amino acid sequences set forth in SEQ ID NO:4; SEQ ID NO:5; and SEQ ID NO:6.
- 10 13. The monoclonal antibody of any one of claims 9 to 12 that is an agonist to human ICOS and comprises an IgG4 isotype scaffold or a variant thereof.
14. The monoclonal antibody of claim 13 wherein said antibody comprises a hIgG4PE scaffold.
15. An ICOS binding protein or antigen binding portion thereof that cross competes for binding to human ICOS with ICOS-ligand when compared to any one of the ICOS binding proteins of
15 claims 1 to 14.
16. A pharmaceutical composition comprising an ICOS binding protein or a monoclonal antibody of any one of claims 1 to 15 and a pharmaceutically acceptable carrier.
17. The pharmaceutical composition of claim 16 for use in the treatment of cancer, infectious disease and/or sepsis in a human in need thereof.