19. A vector comprising a nucleic acid sequence encoding a fibrin $\gamma^{377-395}$ epitope, CKKTTMKIIPFNRLTIG (SEQ ID NO: 18), or a biologically active derivative thereof.

20. An in vitro cell comprising the vector of claim 19 .

21. Use of the cell of claim 20 for the manufacture of a medicament for generating an immune response in a subject, wherein the cell produces an antibody that immunospecifically binds to a fibrin $\gamma^{377-395}$ epitope, or a biologically active derivative thereof, wherein said cell is to be administered to the subject.

22. Use according to any of claims 21 or 22, wherein the antibody produced inhibits fibrin/Mac-1 binding in said subject.

234. A method of screening for a ligand that modulates Mac-1 receptor activity, the method comprising: (a) providing the antibody of claim 1; (b) contacting a fibrin $\gamma^{377-395}$ epitope CKKTTMKIIPFNRLTIG (SEQ ID NO: 18), or a biologically active derivative thereof, and forming an antibody/polypeptide complex;

19. A method of screening for a ligand that modulates Mac-1 receptor activity, the method comprising: (a) providing the antibody of claim 1; (b) contacting a fibrin $\gamma^{377-395}$ epitope CKKTTMKIIPFNRLTIG (SEQ ID NO: 18), or a biologically active derivative thereof, and forming an antibody/polypeptide complex;