CLAIMS

1. Use of a composition in the manufacture of a medicament for the prevention or the treatment of ovarian cancer, wherein said composition comprises a monoclonal, progastrin-binding antibody, or an antigen-binding fragment thereof,

wherein said progastrin-binding antibody is an antibody selected from:

- an antibody comprising a heavy chain comprising CDR-H1, CDR-H2 and CDR-H3 of amino acid sequences SEQ ID N°4, 5 and 6, respectively, and a light chain comprising CDR-L1, CDR-L2 and CDR-L3 of amino acid sequences SEQ ID N°7, 8 and 9, respectively,
- an antibody comprising a heavy chain comprising CDR-H1, CDR-H2 and CDR-H3 of amino acid sequences SEQ ID N°10, 11 and 12, respectively, and a light chain comprising CDR-L1, CDR-L2 and CDR-L3 of amino acid sequences SEQ ID N°13, 14 and 15, respectively,
- an antibody comprising a heavy chain comprising CDR-H1, CDR-H2 and CDR-H3 of amino acid sequences SEQ ID N°16, 17 and 18, respectively, and a light chain comprising CDR-L1, CDR-L2 and CDR-L3 of amino acid sequences SEQ ID N°19, 20 and 21, respectively,
- an antibody comprising a heavy chain comprising CDR-H1, CDR-H2 and CDR-H3 of amino acid sequences SEQ ID N°22, 23 and 24, respectively, and a light chain comprising CDR-L1, CDR-L2 and CDR-L3 of amino acid sequences SEQ ID N°25, 26 and 27, respectively,
- an antibody comprising a heavy chain comprising CDR-H1, CDR-H2 and CDR-H3 of amino acid sequences SEQ ID N°28, 29 and 30, respectively, and a light chain comprising CDR-L1, CDR-L2 and CDR-L3 of amino acid sequences SEQ ID N°31, 32 and 33, respectively, and

an antibody comprising a heavy chain comprising CDR-H1, CDR-H2 and CDR-H3 of amino acid sequences SEQ ID N°34, 35 and 36, respectively, and a light chain comprising CDR-L1, CDR-L2 and CDR-L3 of amino acid sequences SEQ ID N°37, 38 and 39, respectively.

2. The use according to claim 1, wherein said monoclonal progastrin-binding antibody, or antigen-binding fragment thereof, is selected among humanized antibodies, chimeric antibodies, single chain antibodies, camelized antibodies,

IgA1 antibodies, IgA2 antibodies, IgD antibodies, IgE antibodies, IgG1 antibodies, IgG2 antibodies, IgG3 antibodies, IgG4 antibodies and IgM antibodies.

3 .The use according to claim 1 or 2, wherein said monoclonal progastrin-binding antibody, or antigen-binding fragment thereof specifically binds progastrin but does not bind gastrin-17 (G17), gastrin-34 (G34), glycine-extended gastrin-17 (G17-Gly) or glycine-extended gastrin-34 (G34-Gly)

4. The use according to any one of claims 1 to 3, wherein said monoclonal progastrin-binding antibody, or an antigen-binding fragment thereof, is selected among N-terminal anti-progastrin antibodies and C-terminal anti-progastrin antibodies.

5. The use according to any one of claims 1 to 4, wherein said monoclonal progastrin-binding antibody, or an antigen-binding fragment thereof, is a neutralizing antibody.

6. The use according to any one of claims 1 to 5, wherein said monoclonal progastrin-binding antibody is a humanized antibody.

7. The use according to any one of claims 1 to 6, wherein said progastrin-binding antibody, or an antigen-binding fragment thereof is conjugated to a cytotoxic molecule.

8. The use according to any one of claims 1 to 7, wherein said ovarian cancer is metastasized.

9. The use according to any one of claims 1 to 8, wherein said composition further comprises a pharmaceutically acceptable carrier.

10. The use of any one of claims 1 to 9, wherein said composition is to be administered with an anti-cancer therapeutic molecule chosen between a chemotherapeutic molecule and a targeted therapy molecule.

11. The use of claim 10, wherein said composition and said anti-cancer therapeutic molecule are to be administered simultaneously, sequentially or separately.

12. The use of claim 10 or 11, wherein said chemotherapeutic molecule is chosen among folate antagonists, purine antagonists, pyrimidine antagonists, DNA alkylating molecules, DNA cross-linking drugs, antibiotics, platinum complexes, proteasome inhibitors, mitotic spindle poisons, topoisomerase inhibitors and tyrosine kinase inhibitors.

13. The use of any one of claims 10 to 12, wherein said targeted therapy molecule is chosen among antibodies that target EGFR, such as cetuximab or panitumumab, antibodies that target VEGF, such as bevacizumab, antibodies that target HER2, such as trastuzumab or pertuzumab, antibodies that target PD-1 and PDL-1, such as pembrolizumab, antibodies that target CTLA-4, such as ipilimumab, small molecule drugs that target EGFR, such as erlotinib, small molecule drugs that target BRAF, such as vemurafenib or dabrafenib, and a recombinant fusion protein that target VEGF, such as Aflibercept.