

What is claimed is:

1. An isolated antibody, or antigen-binding fragment thereof, that binds the protein, Epsin 1, comprising a variable heavy chain (V_H) and a variable light chain (V_L), wherein:
 - A) the VHC comprises an amino acid that shares at least 90% identity with the amino acid sequence corresponding to SEQ ID NO: 2; and
 - B) the VLC comprises an amino acid that shares at least 90% identity with the amino acid sequence corresponding to SEQ ID NO: 4.
2. The antibody, or antigen-binding fragment of claim 1, comprising at least one of the following complementary determining region (CDR) amino acid sequences:
 - CDR-H1, corresponding to SEQ ID NO: 9;
 - CDR-H2, corresponding to SEQ ID NO: 10;
 - CDR-H3, corresponding to SEQ ID NO: 11;
 - CDR-L1, corresponding to SEQ ID NO: 12;
 - CDR-L2 corresponding to SEQ ID NO: 13; and
 - CDR-L3 corresponding to SEQ ID NO: 14.
3. The antibody, or antigen-binding fragment of claim 1 or 2, wherein the antibody, or antigen-binding fragment, binds to Epsin-1 (EPN1).
4. The antibody, or antigen-binding fragment of claim 3, wherein the K_D between the antibody or antigen-binding fragment and EPN1 is 50 nM or less.
5. The antibody, or antigen-binding fragment of claim 4, wherein the K_D is 1 nM or less.
6. An isolated nucleic acid molecule encoding the V_H according to claim 1.
7. An isolated nucleic acid molecule encoding the V_L according to claim 1.
8. The isolated nucleic acid molecule of claim 6, operably linked to a promoter.
9. The isolated nucleic acid molecule of claim 7, operably linked to a promoter.
10. An expression vector comprising the isolated nucleic acid molecule of at least one of claims 8 and 9.
11. An isolated expression vector comprising the isolated nucleic acid molecule of at least one of claims 8 and 9.

12. An isolated host cell transformed with the nucleic acid molecule or expression vector of claim 11.