Claims:

1. An antibody that binds to the glycan motif Fucα1-2Galβ1-3GlcNAcβ1-3Galβ1 or Fucα1-2Galβ1-3GlcNAc, wherein the antibody is cytotoxic against undifferentiated pluripotent cells, and wherein the antibody comprises:

at least one light chain variable region incorporating the following CDRs:

CDR1: SASSSVSYMF	(SEQ ID NO: 1)
CDR2: LTSNLAS	(SEQ ID NO: 2)
CDR3: QQWSSNPYT	(SEQ ID NO: 3); and

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

CDR1: GFTFSNYYMN	(SEQ ID NO: 4)
CDR2: EIRLKSNNYATHYAESVKG	(SEQ ID NO: 5)
CDR3: FGY	(SEQ ID NO: 6).

2. A monoclonal antibody produced from hybridoma cell line TAG-A1, deposited with American Type Culture Collection under Accession Number PTA-121134.

3. The antibody according to claim 1 comprising a heavy chain and a light chain variable region sequence, wherein:

the heavy chain sequence has at least 85% sequence identity to the A1H heavy chain sequence shown in Figure 15A, and

the light chain sequence has at least 85% sequence identity to the A1L light chain sequence shown in Figure 15B.

4. A composition comprising the antibody or polypeptide of any one of claims 1 to 3 and at least one pharmaceutically-acceptable carrier.

5. An isolated nucleic acid encoding the antibody or polypeptide of any of one of claims 1 to 3.

6. A vector comprising the nucleic acid of claim 5.

7. A host cell comprising the vector of claim 6.

8. A method for making an antibody or polypeptide of any of one of claims 1 to 3 comprising culturing the host cell of claim 7 under conditions suitable for the expression