

ABSTRACT

MONOCLONAL ANTIBODY OF NERVE GROWTH FACTOR AND ENCODING GENE AND USE THEREOF

Disclosed are a monoclonal antibody of a nerve growth factor and an encoding gene thereof and the use thereof. The monoclonal antibody of the nerve growth factor of the present invention comprises heavy and light chains, wherein the heavy chain comprises a heavy chain constant region and a heavy chain variable region; the light chain comprises a light chain constant region and a light chain variable region; the heavy chain variable region includes three complementary determining regions HCDR1, HCDR2 and HCDR3; and the light chain variable region includes three complementary determining regions LCDR1, LCDR2 and LCDR3. The monoclonal antibody of the nerve growth factor of the present invention can specifically bind to the nerve growth factor, can be used for detecting the presence and/or level of the nerve growth factor, for preparing a drug that inhibits nerve-growth-factor-dependent proliferation in TF-1 cells, and for preparing a drug for treating or preventing at least one of neuropathic pain, chronic pain and inflammatory pain, and has good application prospects and market value.

Figure 1