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Monoclonal Antibody 1F5

National Cancer Institute

Source

National Cancer Institute. *Monoclonal Antibody 1F5*. NCI Thesaurus. Code C29198.

A murine monoclonal antibody directed against CD20, a cross-membrane ion channel phosphoprotein expressed by B cells, with potential antineoplastic activity. MOAB 1F5 binds to CD20, thereby directly inhibiting B-cell proliferation and differentiation. When cross-linked by secondary anti-mouse antibodies or Fc receptor-bearing cells, MOAB 1F5 may induce activation of B-cell protein tyrosine kinases, increases in B-cell intracellular calcium ion concentrations, and B-cell caspase activation, resulting in apoptosis of B cells expressing CD20. (NCI04)