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Pertuzumab

National Cancer Institute

Source

National Cancer Institute. *Pertuzumab*. NCI Thesaurus. Code C38692.

A humanized recombinant monoclonal antibody directed against the extracellular dimerization domain of the HER-2 tyrosine kinase receptor. Binding of the antibody to the dimerization domain of the HER-2 tyrosine kinase receptor protein directly inhibits the ability of the HER-2 tyrosine kinase receptor protein (the most common pairing partner) to dimerize with other HER tyrosine kinase receptor proteins; inhibiting receptor protein dimerization prevents the activation of HER signaling pathways, resulting in tumor cell apoptosis. (NCI04)