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Anti-EGFR Monoclonal Antibody RO5083945

National Cancer Institute

Source

National Cancer Institute. *Anti-EGFR Monoclonal Antibody RO5083945*. NCI Thesaurus. Code C78838.

A glycoengineered monoclonal antibody directed against the epidermal growth factor receptor (EGFR) with potential antineoplastic activity. Anti-EGFR monoclonal antibody RO5083945 binds to the extracellular domain of EGFR, preventing the activation and subsequent dimerization of the receptor; the decrease in receptor activation and dimerization may result in an inhibition of downstream ERK and JNK signaling pathways and so inhibition of EGFR-dependent tumor cell proliferation and metastasis. EGFR, a member of the epidermal growth factor family of extracellular protein ligands, may be overexpressed on the cell surfaces of various solid tumor cell types.