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# Anti-M-CSF Monoclonal Antibody MCS110

National Cancer Institute

## Source

National Cancer Institute. *Anti-M-CSF Monoclonal Antibody MCS110*. NCI Thesaurus. Code C80044.

A humanized monoclonal antibody directed against macrophage colony-stimulating factor (M-CSF) with potential anti-osteolytic activity. Anti-M-CSF monoclonal antibody MCS110 binds to M-CSF and blocks M-CSF-mediated signaling through the M-CSF receptor CD116 expressed on osteoclasts, which may result in inhibition of M-CSF-induced osteoclast differentiation and so osteoclastic bone resorption. Osteoclasts are derived through the fusion of cells of the monocyte/macrophage lineage. Osteoblasts and stromal cells may react to bone metastases by producing M-CSF and its osteoclastogenic cofactor RANKL (receptor activator of NF-kappaB ligand).