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Iodine I 124 Monoclonal Antibody M5A

National Cancer Institute

Source

National Cancer Institute. *Iodine I 124 Monoclonal Antibody M5A*. NCI Thesaurus. Code C158629.

A radioimmunoconjugate comprised of M5A, a humanized monoclonal antibody directed against carcinoembryonic antigen-related cell adhesion molecule 5 (CEA or CEACAM5), labeled with iodine I 124 (I-124) with potential radiolocalization applications. Upon administration, the antibody moiety of iodine I 124 monoclonal antibody M5A specifically binds to cells expressing CEA. Upon binding, the radioisotope moiety can be detected using positron-emission tomography (PET), thereby allowing the imaging and quantification of CEA-expressing tumor cells. CEA, a tumor associated antigen and a member of the CEA family of proteins, plays a key role in cell migration, cell invasion, and cell adhesion and is overexpressed by a variety of cancer types.