



iBodies

synthetic antibodies



ÚOCHB
IOCB PRAGUE



IOCB TTO
www.iocb-tto.cz



Faculty of Science
CHARLES UNIVERSITY IN PRAGUE

iBodies Technology and Application

iBodies are synthetic polymer conjugates consisting of HPMa copolymer backbone decorated with low-molecular-weight compounds that function as targeting ligand, affinity anchor and imaging probe (fluorophore).

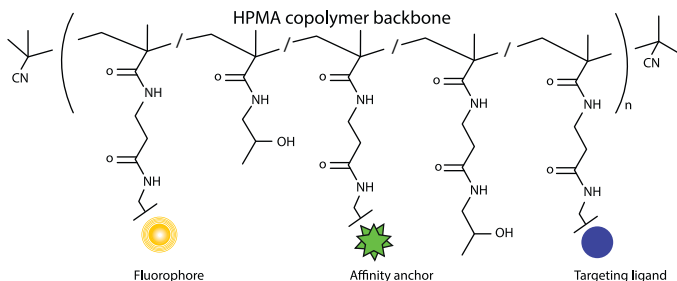


Figure 1: General structure of HPMa polymer based iBodies

The iBodies platform is used to produce stable and non-animal-based antibody substitutes. Provided a ligand is known, iBodies can theoretically be directed toward any protein of interest, thus replacing antibodies in a wide range of biochemical applications such as ELISA, flow cytometry, confocal microscopy, western blotting and immunoprecipitation.

Comparison with Commercially Available mAbs

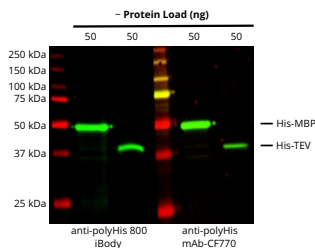


Figure 2: Western blot of 10xHis-tagged maltose-binding protein (His-MBP) and 6xHis-tagged TEV protease (His-TEV). Comparison of detection with anti-polyHis 800 iBody (left) and anti-polyHis mAb-fluorophore conjugate (right).

further reading:

Šácha P, Knedlík T et al. Angew Chem Int Ed Engl. 2016 Jan 8.

for more info:
www.ibodies.eu