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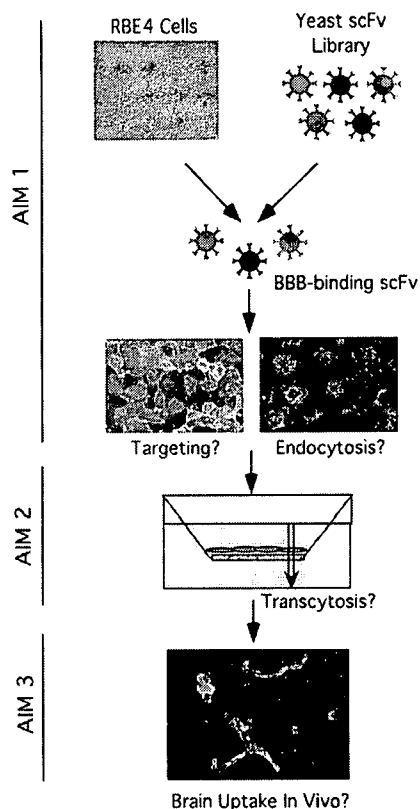
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(54) Title: BLOOD-BRAIN BARRIER TARGETING ANTIBODIES



(57) Abstract: This invention provides antibodies that bind brain endothelial cell receptors resulting in endocytosis/transcytosis of the receptor and bound ligands. In some embodiments, the ligand comprises the antibody in combination with a pharmaceutically active compound and the antibody directs delivery of the compound across the blood brain barrier (BBB). The invention also provides methods of identifying endothelial cell specific antibodies by panning the library against cultured cell monolayers. The invention further allows for identifying endothelial cell receptors that bind the antibody thereby providing target receptors against which to isolate further cognate ligands and their associated transport systems and by which to identify transcytosis transporters targeted by the antibodies.

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