COMMON LIGHT CHAIN MOUSE

ABSTRACT

A genetically modified mouse is provided, wherein the mouse is incapable of rearranging and expressing an endogenous mouse immunoglobulin light chain variable sequence, wherein the mouse expresses only one or two human light chain variable domains encoded by human immunoglobulin sequences operably linked to the mouse kappa (κ) constant gene at the endogenous mouse κ locus, wherein the mouse expresses a reverse chimeric antibody having a light chain variable domain derived from one of only two human light chain variable region gene segments and a mouse κ constant domain, and a human heavy chain variable domain and a mouse heavy chain constant domain, from an endogenous mouse heavy chain locus. Bispecific epitope-binding proteins that are fully human are provided, comprising two different heavy chains that associate with an identical light chain that comprises a variable domain derived from one of two different human light chain variable region gene segments.

[Figure 1]