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(54) Title: ANTIBODIES TO MATRIX METALLOPROTEINASE 9

FIGURE 1

Anti-MMP9 humanized heavy chains

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AB0041    QVQLKESGPG LVAPSQSLSI TCTVSGFSLL SYGVHWVRQP PGKGLEWLGV
VH1       QVQLQESGPG LVKPSETLSL TCTVSGFSLL SYGVHWVRQP PGKGLEWLGV
VH2       QVQLQESGPG LVKPSETLSL TCTVSGFSLL SYGVHWVRQP PGKGLEWLGV
VH3       QVQLQESGPG LVKPSETLSL TCTVSGFSLL SYGVHWVRQP PGKGLEWLGV
VH4       QVQLQESGPG LVKPSETLSL TCTVSGFSLL SYGVHWVRQP PGKGLEWLGV

AB0041    IWTGGTTNYN SALMSRLSIS KDDSKSQVFL KMNSLQTDDT AIYYCARYYY
VH1       IWTGGTTNYN SALMSRLTIS KDDSKSTVYL KMNSLKTEDT AIYYCARYYY
VH2       IWTGGTTNYN SALMSRLTIS KDDSKNTVYL KMNSLKTEDT AIYYCARYYY
VH3       IWTGGTTNYN SALMSRFTIS KDDSKNTVYL KMNSLKTEDT AIYYCARYYY
VH4       IWTGGTTNYN SALMSRFTIS KDDSKNTLYL KMNSLKTEDT AIYYCARYYY

AB0041    GMDYWGQGTS VTVSS  (SEQ ID NO:5)
VH1       GMDYWGQGTS VTVSS  (SEQ ID NO:5)
VH2       GMDYWGQGTL VTVSS  (SEQ ID NO:6)
VH3       GMDYWGQGTL VTVSS  (SEQ ID NO:7)
VH4       GMDYWGQGTL VTVSS  (SEQ ID NO:8)
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(57) Abstract: The present disclosure provides compositions and methods of use involving binding proteins, e.g., antibodies and antigen-binding fragments thereof, that bind to the matrix metalloproteinase-9 (MMP9) protein (MMP9 is also known as gelatinase-B), such as where the binding proteins comprise an immunoglobulin (Ig) heavy chain (or functional fragment thereof) and an Ig light chain (or functional fragment thereof).