FIGURE 1

Anti-MMP9 humanized heavy chains

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:3)
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)

FIGURE 2

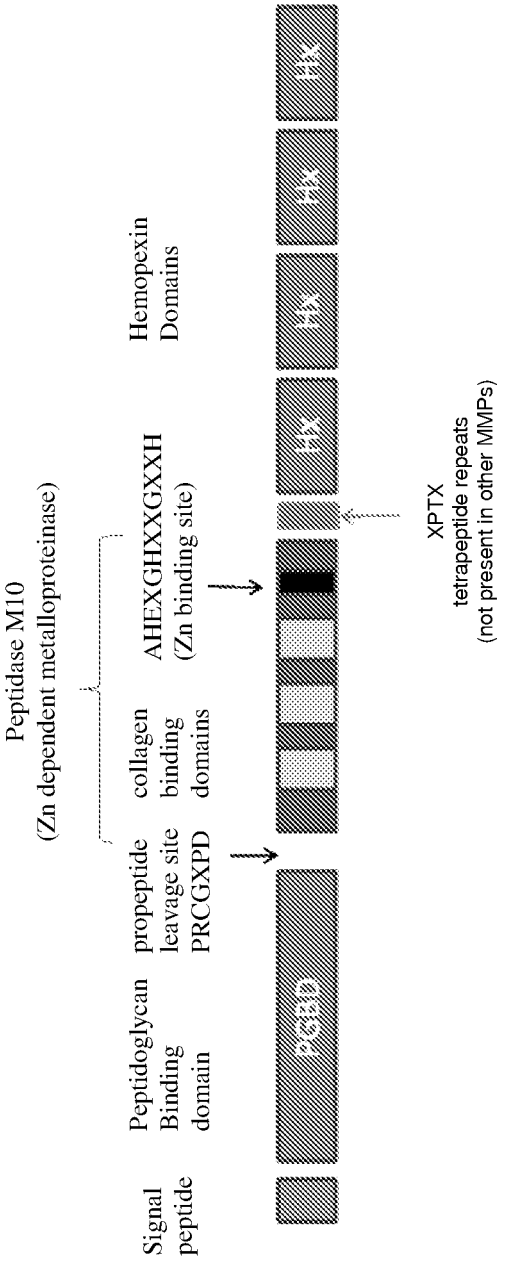
Anti-MMP9 humanized light chains

```
AB0041     DIVMTQSHKF MSTSVGDRVS ITCKASQDVR NTVAWYQQKT GQSPKLLIYS
Vk1        DIVMTQSPSF LSASVGDRVT ITCKASQDVR NTVAWYQQKT GKAPKLLIYS
Vk2        DIVMTQSPSS LSASVGDRVT ITCKASQDVR NTVAWYQQKP GKAPKLLIYS
Vk3        DIQMTQSPSS LSASVGDRVT ITCKASQDVR NTVAWYQQKP GKAPKLLIYS
Vk4        DIQMTQSPSS LSASVGDRVT ITCKASQDVR NTVAWYQQKP GKAPKLLIYS

AB0041     SSYRNTGVPD RFTGSGSGTD FTFTISSVQA EDLAVYFCQQ HYITPYTFGG
Vk1        SSYRNTGVPD RFTGSGSGTD FTLTISSLQA EDVAVYFCQQ HYITPYTFGG
Vk2        SSYRNTGVPD RFTGSGSGTD FTLTISSLQA EDVAVYFCQQ HYITPYTFGG
Vk3        SSYRNTGVPD RFSGSGSGTD FTLTISSLQA EDVAVYFCQQ HYITPYTFGG
Vk4        SSYRNTGVPD RFSGSGSGTD FTLTISSLQA EDVAVYYCQQ HYITPYTFGG

AB0041     GTKLEIK  (SEQ ID NO:4)
Vk1        GTKVEIK  (SEQ ID NO:9)
Vk2        GTKVEIK  (SEQ ID NO:10)
Vk3        GTKVEIK  (SEQ ID NO:11)
Vk4        GTKVEIK  (SEQ ID NO:12)
```

FIGURE 3


Peptidase M10
(Zn dependent metalloproteinase)
Signal peptide
Peptidoglycan Binding domain
propeptide leavage site PRCGXPD
collagen binding domains
AHEXGHXXGXXH
(Zn binding site)
Hemopexin Domains
XPTX
tetrapeptide repeats
(not present in other MMPs)