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3 0 5 " " " " 29 "

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 1.3 0 4 " " 41

1.4 SCF/CD 3 3 9 " 1 " 42

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 1.4.1 CD 3 3 9 - " " " " " 45

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 1.4.2 CD 3 3 9 - " " " " " 47

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 4 0 6 0 3 " " -Ki- 8 9 " 58

 4 0 6 0 4 " " - CD172a" 58

 4 0 6 0 5 " " -CD 3 3 9 " 59

4 0 7 0 " " " " " 60 "

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4 0 8 " " " 64

4 0 9 " " " 65

" 5 " " CD 3 3 9 - " " " " " 66

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5 0 5 " CD 3 3 9 " " 70

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7 0 6 "	"	- " " "	"
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8 0 4 "	"	"	
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8 0 5 "	"	" E F 3 3 9 " "	102
8 0 5 0 3 "	CD 3 3 9 "	" " "	
		"....."	103
8 0 5 0 4 "	CD 3 3 9 "	" "	
		105
8 0 6 "	CD 3 3 9 - "	" "	" "
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8 0 7 "	"	" "	"
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8 0 7 "		110
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9 0 3 "	"	" "	" "
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9 0 4 "	CD 3 3 9 "	" "	"
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9 0 5 "	CD 3 3 9 - "	" " "	"
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[3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15] 0 "

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. " " "[25, 26, 67].

" " " " . "

[28, 43, 45, 47, 56] 0 "

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" TNF- * " -) IL-6'

* -6) . " " " " "

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" δHGF * " " [39, 77, 85, 130, 159].

" " " " " "

" HGF Wnt7b * . "

Wnt)[183, 184, 186].

" " " SCF/CD117

/ " " " "

" [101, 144, 222, 240, 243]. " SCF

* " " " + . " " " "

TNF- IL-6 [121, 208] 0 " " " "

" CD3 3 9 . " " " "

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[90, 137, 138, 145, 217, 271] 0 "

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168, 261] . " . " SCF . " " " " " "

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" [88, 158]. "

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188, 251] " " " " "

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105, 167]!"]

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[91; 113, 128, 177, 277].

Humphreys et al.

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[161]. Fujigaki Y. et al 0 "

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[128].

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" " " " HGF (hep'atocyte growth factor,

" " " HGF + 0 " " "

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HGF " " " " " "

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" " " " 186_ 0 " " " "Y. Liu

" " " " HGF " " "

" -3- kt " " "

Bad " " " 0 " "

" - Bcl- E [180]. " " "

HGF " " " " " "

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HGF . " " "TGF- /Smad " " "

" TGF- ó " " " "

Y. Liu " " " HGF " "

" " " " " "

" " " " 127, 179_ 0 " "

" " HGF" TGF- " " 0 " "

" " " " IGF-1

(insulin-kike growth factor, 1'+ 0 " "

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Millër S.B. et al 0 Ding" 0

H. et al 0 " " "IGF- 3 " " "

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" " " " 156, 220]. "]

" " " " " "

" " " EGF + " " "

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" " " Zhuang S. et al 0 " " in vitro " " "

" EGF " " " " " "

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127, 279]. "]

" Stokman G. et al 0 " " SDF-1 "

(stromal cell-derived factor-1, " -1) " "

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[231].

" " " "

CSF-1 "* " -1) . "

0 " " Menke"J. et" al., " "

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" " " CSF-1 [105].

" Cantaluppi V. et al 0 " MSP (măcrophage "

stimulating protein, ") in vitro "

[183]. "

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" VEGF * "

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Kanellis J. et al' 0 . "

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" in vitro " " L. Li 0 "" "

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Lim1, Six 4 . " " 8 " " 3 8 . " "

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Duffield J.S. et al. . " " "

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223]:"]

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B. et al 0 " " " " " 3

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 " 174]! "]

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" " " K. Matsumoto "
 " " , "HGF,
 186]. 0 "]

Lin S.L. et al 0 " " . " " Wnt7b ó
 " " Wnt . " " " " "
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 0 " " " " " " " "

* 1 + " " " " " " "
 " " Wnt- " " " " " " "
 " " " " " " " "

[184].

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Cantaluppi V. et al 0 " MSP . " " " " " "
 " " " " " " " " pro-MSP. "
 " " " " " " " " " " " " "

[183]. " "

NO, in vitro

Lañge-Sperandio B. et al 0 " "

e-, p-, l- " + ! " * 232].

< " " " OTNF- "

Kang et al 0 " " "

VEGF" ó " "

VEGF ! " " " VEGF " " " TNF- IL- 3 "

167]. "

182," 226" _ 0 " " "Tan T.K. et al.]

MMP9 (" " " " "

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ø . " " " " 182]. . "

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17,19, 57, 58 _ 0 " " " " Koenig S. Et al.,

in vitro . " "

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254 _ 0 " "] " " " "

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(HGF, V I HB + 0 " " " 7 " " " "Notch

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HGF . "" IL-6, TNF- , V I H "" "

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" [19,125, 190]. " " "

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" [125, 190]. " "

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V I H B . " " " " - HGF "

EGF 0 " V I H B . "" " HGF ! " " "

G 2 " " " " 0 " " "

" " [125, 190].

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PDGF + "" * " " VEGF, SCF, TGF- ,

+ 0 " " "

" " [125, 190].

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" " HGF . " "

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Fas " " " " "

141, 163, 190] 0 " " Lindöos P.M. et al.

HGF " " " " "

4 2 " 178]. "Blöck G.D. et al 0 " HGF . " "

" in vitro . "" " " " Patijn 'G.A. "

" in vivo < "" HGF " " "

" " " 140, 212].

HGF " " " "

" " IL-6 [141, 190]. "

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GF ó " GF " "GFR,"

" " TGF- . " " "

" TGF- "" 0 ""

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4 : " 125, 163, 190, 264].

" TNF- IL- 8 "" " "

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" 125, 163, 190]. "

. " " Akerman P. et al 0 " " " . "

" TNF- " " " "

" 84 _ 0 " Yamada Y. et al 0 " ""

" . " " TNF- . " "

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" " TNF- " . " " "

" "Webber E.M. et al 0 " 0 " TNF- . " " "

" " HGF " TGF- . "

" NFkB STAT 5 " " 268 _ 0] " "

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TNF- " " " "

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H.A. et al. [162].

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" " " " " Schwartz R.E. et al.

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[195].

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" " " Chamberlain J. et al 0 " "

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Parekkadan B. et al 0 . " " " "

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" Russo F.P. et al 0 "" " " "

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252].+ "]

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" " " TNF- IL-6

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[159, 258]. HGF . "

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" HGF" " "

" "258]. "

" ALR (augmenter of liver regeneration)

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" " TNF- IL-6 [85, 130]. "

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3 ; : 8 "P. Besmer et al. *v-kit* . " " "

Hardy-Zuckerman* 4 feline sarcoma virus) [53, 78, 213 _ 0 " "

" " " " -kit . " "

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kit . " " " " **CD117** [53,

147, 201, 213, 229, 239].

CD 3 3 9 " " " " "

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" " " 96, 166, 214 _ 0 " "] " " "

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" 168, 222, 240, 243]. " "]

-kit " - s "3 4 " " s 3 3 "

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(Steel + " " " " " " " "

[181, 256 _ 0 " " " " " " "

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CD 3 3 9 0 " " " " 'S1 242]. " "

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239] SCF " " 0 " " "

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" [92, 235, 246]. " " SCF " "

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CD 3 3 9SCF " " ó

- 5 , MAP- Jak2/STAT- "

[80, 87, 201, 228, 239, 247, 257].

" " SCF/CD 3 3 9 " "

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" c-kit " " " 92_0 " " "

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237].

[92, 235,

239]

SCF

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SCF . "

[92, 235, 246]. " " SCF "

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" "[222, 240].

CD 3 3 9SCF "

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- 5 , MAP-

Jak2/STAT-

[80, 87, 201, 228, 239, 247, 257].

SCF/CD 3 3 9 "

[108, 191, 238, 278].

CD117

CD117 - "

92].

SCF

[92, 139, 201, 221,

237].

SCF " " " -kit " " [92, 100, 166, 171, 201, 202, 215].

" " " W " S1 " " " " SCF/CD117

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SCF < " " " " " [129, 165, 170, 196_ 0 " " CD 3 3 9 " 129].

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" " SCF/CD117 1 " " " [101, 200].

CD117 " SCF " " " * 1 " " 0 " " "

" " " " " " " [101, 117, 118, 168, 169, 240, 241]. "

CD117

240].

Stokman G. et al.

SCF". "

[168,

antisenses oligonucleotides (

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SCF/CD 3 3 9. "

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SCF [221, 241].

SCF " "

SCF 0 " "

Bengatta S. et al.

MMP-9

SCF

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" " " 192, 221, 236].

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267, 269].

" CD 3 3 9 - " . "

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" Ren X. t al. in vitro SCF " "

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SCF " " " 9 2 ' "

" " " " " [222, " 243].

SCF " " " " "

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[144].

" " " " SCF " " "
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" CD 3 3 9 - "" " " " 137]. "]"
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[134].

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" [211, 233, 259, 261 _ 0 " "
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126, ¶61]. " "

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" " [95, 97, 119, 255, 265]. "

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"" 102, 103, 122, 123].

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" B. Hu" L. Colletti " CD117 . "

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" " [144].

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SCF " " " " "

[222, 243]. " " SCF " " " "

" " [121, 208]."

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(IL-6, V P H SCF.

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CD 3 3 9 - " " Ki- 8 9 + " "

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CD117	Anti-CD117, ACK2. 1:50 Millipore, USA.	Biotine mouse anti-rat IgG2b 1:50 Millipore, USA.
Ki-67	Purified Mouse Anti-Human Ki-67, 56. 1:50 BD Biosciences, USA	Biotin Goat Anti-Mouse Ig (Multiple Adsorption). 1:50 BD Biosciences, USA.
CD172a (SIRP)	Anti-Macrophages/Granulocytes, OX-41. 1:150 Millipore, USA.	

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CD117-

CD90 (Thy-3 + CD5):

CD45^{low}CD117+CD90^{low}

CD45^{low}CD117+CD5: -

[120, 218, 270].

BD Biosciences CD117-PE, IgG2b = CD38-FITC, IgG2a = CD90-FITC, IgG2a

* IgG2b-PE, IgG2a-FITC; BD + 0

FACS Lysing Solution BD

Biosciences 0

CD67 *

CD45-PerCP-Cy5.5, IgG2b = IgG2b-PerCP-Cy5.5; BD + 0

FC500 (Beckman Coulter +

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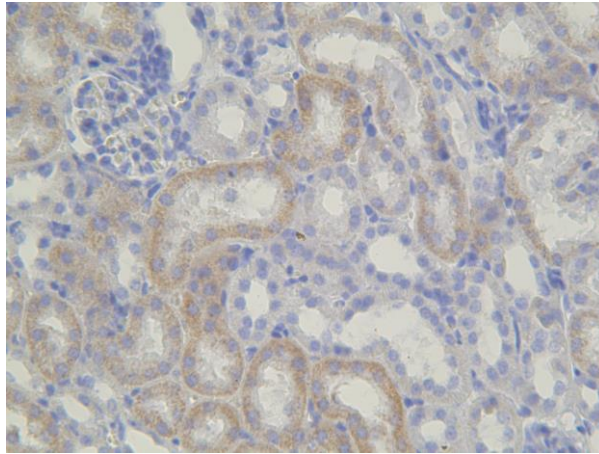
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2	76,12 Õ 7,15	65,12 Õ 3,42	69,71 Õ 3,05	67,38 Õ 2,26	61,42 Õ 4,00	64,73 Õ 3,28
"	0,59 Õ 0,04	1,17 Õ 0,38*	0,73 Õ 0,05	0,69 Õ 0,06	0,78 Õ 0,14	0,76 Õ 0,02
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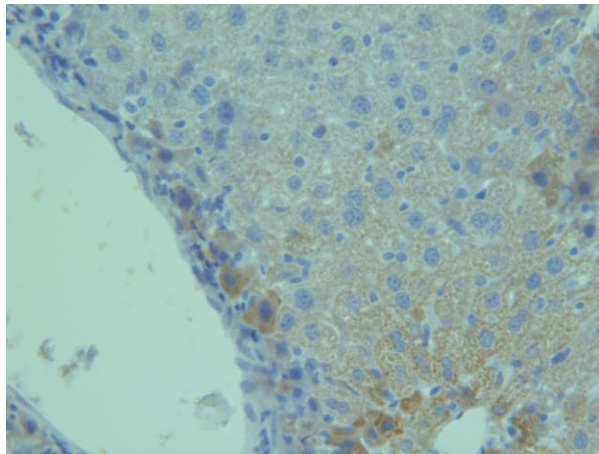
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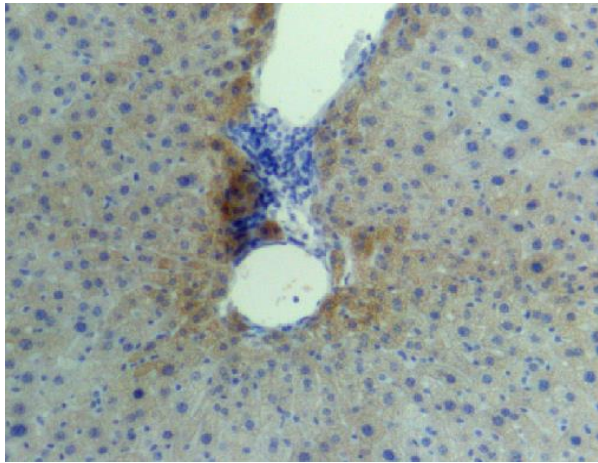
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