

US006884879B1

(12) United States Patent

Baca et al.

US 6,884,879 B1 (10) Patent No.: (45) Date of Patent: Apr. 26, 2005

(54) ANTI-VEGF ANTIBODIES

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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: 08/908,469
- (22) Filed: Aug. 6, 1997

Related U.S. Application Data

- Continuation-in-part of application No. 08/833,504, filed on (63) Apr. 7, 1997, now abandoned.
- (51) Int. Cl.⁷ C07H 21/04
- (52) U.S. Cl. 536/23.53; 435/320.1;
 - 530/387.3; 530/388.85
- (58) Field of Search 435/327, 252, 435/1, 320.1, 252.3, 69.1; 536/23.1, 23.53; 530/382.1, 387.3, 388, 388.85

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ABSTRACT (57)

Humanized and variant anti-VEGF antibodies and various uses therefor are disclosed. The anti-VEGF antibodies have strong binding affinities for VEGF; inhibit VEGF-induced proliferation of endothelial cells in vitro; and inhibit tumor growth in vivo.

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Variable Heavy

A4.6.1	EIQLVCSGPELKQPC	GETVRISCKA	S <u>GYTFTNYGM</u>	<u>INWVKQAPGKGLKWM</u>	G			
F(ðb)-12	LVQLVESGGGLVQPGGSLRLSCAAS <u>GYTFTNYGMN</u> WVRQAPGKGLEWVG							
humIII	EVQLVESGGGLVQPG	GSLRLSCAAS 20	* ** * SGFTFSSYAM 30	* SWVRQAPGKGLEWV 40	* S			
A4.6.1	WINTYTGEPTYAADF	KRRFTFSLEI	(SASTAYLQI	SNLKNDDTATYFCA	к			
F(ab)-12	WINTYTGEPTYAADF	KRRFTFSLDI	SKSTAYLOM	** *** * * NSLRAEDTAVYYCAI	K Fig. IA			
humIII	VISGDGGSTYYADSV 50 a 60	KGRFTISRDN 70	SKNTLYLOMI 80	NSLRAEDTAVYYCAI abc 90	F 2			
£4.6 .1	YPHYYGSSHWYFDVWO	GAGTTVTVSS	(SEQ ID N	૦: ૧)				
F(ab)-12	YPHYYGSSHWYFDVWC	GQGTLVTVSS	(SEQ. ID N	(F:0L				
humIII	GFDYWC	QGTLVTVSS 110	(SEQ ID	N0: 11)				
	Va	riable L	ight					
A4.6.1	DIQMTQTTSSLSASLG	DRVIISC <u>SAS</u>	SODISNYLNW	YQQKPDGTVKVLIY				
F(ab)-12	DIQMTQSPSSLSASVG	DRVTITCSAS	<u>SODISNYLN</u> W	**** YQQKPGKAPKVLIY				
humKI	DIQMTQSPSSLSASVG 1 10	* DRVTITCRAS 20	* * SQSISNYLAW 30	* YQQKFGKAPKLLIY 40				
					Pic 1P			

- A4.6.1 FTSSLHSGVPSRFSGSGSGTDYSLTISNLEPEDIATYYCOOYSTVPWTF ** * * * F(ab)-12 <u>FTESL</u>SGVPSRFSGSGSGTDFTLTISSLQPEDFATYYC<u>OOYSTVFWT</u>F ** * *** AASSLESGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQYNSLPWTF humKI E 60 70 80 90
- A4.6.1 GGGTKIEIKR (SEQ ID NO: 10) 1: F(ab)-12 GOGTKVEIKR (SEQ ID NO:8)

GOGTKVEIKR (SEQ ID NO: 12) humKI 100

Δ

Fig. 1B



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