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- [54] IMMUNOGLOBULIN VARIANTS
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- [52] U.S. Cl. **530/387.3; 530/350; 530/388.2;**
424/133.1
- [58] Field of Search **530/387.3, 350,**
530/388.2; 424/133.1

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[57] ABSTRACT

Variant immunoglobulins, particularly humanized antibody polypeptides are provided, along with methods for their preparation and use. Consensus immunoglobulin sequences and structural models are also provided.

15 Claims, 12 Drawing Sheets



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FIG. 1A

	10	20	30	40
4D5	DIVMTQSHKFMSTSVGDRVSITCKASQDVNTAVAWYQQKPGHSPKLL			
HU4D5	DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLL			
HU _{V_L} κI	DIQMTQSPSSLSASVGDRVTITCRASQDVSSYLAWYQQKPGKAPKLL			

			V _L -CDR1	

	60	70	80	90	100
4D5	GVPDRFTGNRSGTDFFTFTISSVQAEDLAVYYCQQHYTTPPTFGGGT				
HU4D5	GVPSRFSGSRSGTDFTLTISLQPEDFATYYCQQHYTTPPTFGQGT				
HU _{V_L} κI	GVPSRFSGSGSGTDFTLTISLQPEDFATYYCQQYNSLPYTFGQGT				

				V _L -CDR3	

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