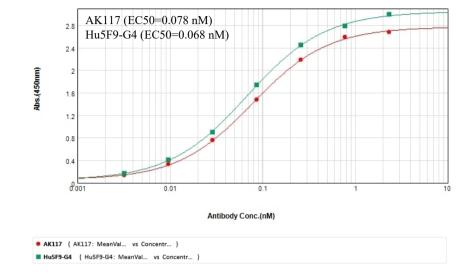
Supplementary Materials

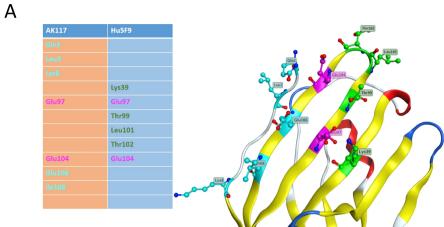
Supplementary Figure S1

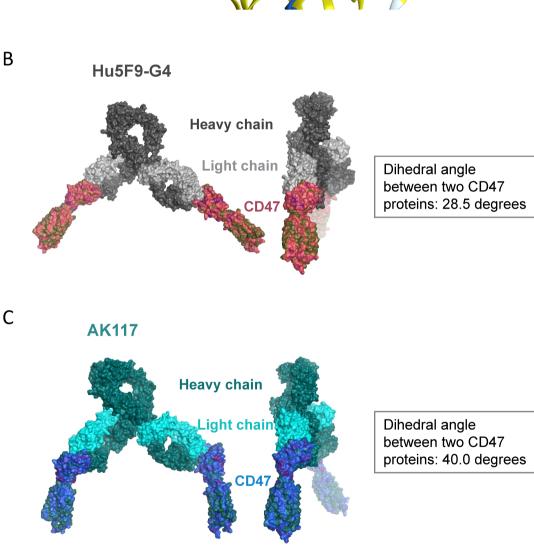


Supplementary Figure S1. Binding activity of AK117 with CD47.

Binding of AK117 to recombinant ECD of human CD47 was tested by ELISA.

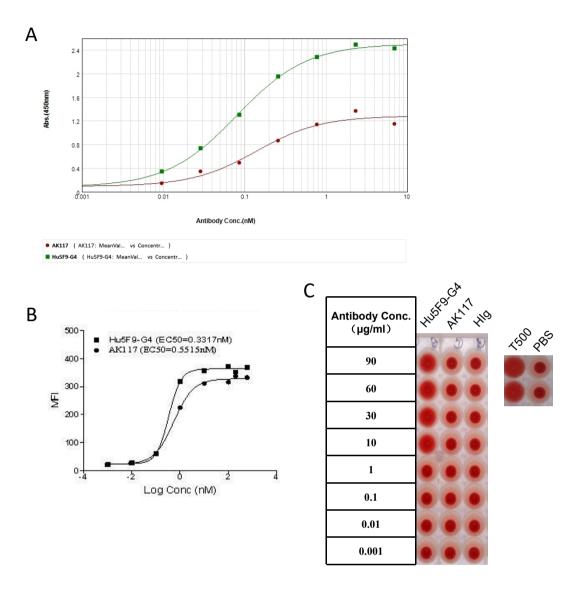
Supplementary Figure S2





Supplementary Figure S2. Simulation of AK117/CD47 structure. (A) Overlapped residues within the binding epitopes of AK117 and Hu5F9-G4 on CD47. (B) Different views of Hu5F9-G4/CD47 structure with a dihedral angle of 28.5 degrees. (C) Different views of AK117/CD47 complex with a dihedral angle of 40.0 degrees.

Supplementary Figure S3



Supplementary Figure S3. AK117 bound to cynomolgus monkey CD47 with no hemagglutination of cynomolgus RBCs. (A) Binding activity of AK117 to cynomolgus monkey CD47 protein was examined by ELISA. (B) Binding activity of AK117 or Hu5F9-G4 to cynomolgus monkey RBCs was determined by FACS. (C) AK117 does not induce hemagglutination of cynomolgus moneky RBCs, but Hu5F9-G4 does.

Supplementary Table S1. Hematological parameters in cynomolgus monkeys with different doses of AK117.

Α

Group		Dose of	Concentration	Number of	Identification	n No. of
		AK117	7 of AK117 cynomolgus cynom		cynomolgus	omolgus monkeys
		(mg/kg)	(mg/ml)	monkey	Male	Female
1	Vehicle control group	0	0	1	1811381	1811382
2	Low-dose group	10	1	1	1811383	1811384
3	Medium-dose group	30	3	1	1811385	1811386
4	High-dose group	100	10	1	1811387	1811388

Experimental design: 1 cynomolgus monkey/sex/group, single-dose intravenous injection at Day 1, euthanization at Day 15.

В

1811381	RBC (×10 ¹² /L)	Hemoglobin (g/L)	Hematocrit	Reticulocyte (×10 ¹² /L)
		, o	. ,	,
Day-1	5.87	135	41.2	0.079
Day1	5.47	126	38.8	0.08
Day2	5.5	130	38.7	0.072
Day3	5.7	136	40.4	0.087
Day5	5.96	152	42.9	0.123
Day8	5.62	131	41.1	0.163
Day11	5.2	120	37.4	0.177
Day15	5.64	135	41.1	0.171

1811382	RBC	Hemoglobin	Hematocrit	Reticulocyte
1011302	$(\times 10^{12}/L)$	(g/L)	(%)	$(\times 10^{12}/L)$
Day-1	5.29	119	38.9	0.061
Day1	5.17	116	38.7	0.074
Day2	5.65	128	41.5	0.077
Day3	5.17	117	38.2	0.057
Day5	4.76	116	35.9	0.065
Day8	4.69	106	36.2	0.162
Day11	4.94	111	38.6	0.185
Day15	5.23	122	40.1	0.16

1811383	RBC	Hemoglobin	Hematocrit	Reticulocyte
1011303	(×10 ¹² /L)	(g/L)	(%)	$(\times 10^{12}/L)$
Day-1	5.66	133	43.1	0.09
Day1	5.05	119	38.6	0.081
Day2	5.48	128	41.2	0.073
Day3	4.98	116	37.1	0.082
Day5	5.26	128	38.7	0.107
Day8	4.97	116	36.4	0.252
Day11	5.07	117	39.1	0.315
Day15	5.37	130	42.4	0.282

1811384	RBC	Hemoglobin	Hematocrit	Reticulocyte
1011001	$(\times 10^{12}/L)$	(g/L)	(%)	$(\times 10^{12}/L)$
Day-1	5.03	120	39.6	0.051
Day1	4.52	109	36	0.07
Day2	4.79	117	37.3	0.064
Day3	5	121	39	0.093
Day5	3.89	98	30	0.095
Day8	4.01	95	31.8	0.261
Day11	4.23	105	34.6	0.438
Day15	4.64	115	38.4	0.234

1811385	RBC	Hemoglobin	Hematocrit	Reticulocyte
1011303	$(\times 10^{12}/L)$	(g/L)	(%)	$(\times 10^{12}/L)$
Day-1	6.22	137	46	0.064
Day1	5.42	119	40.1	0.04
Day2	5.89	129	43.4	0.035
Day3	5.28	115	39.6	0.038
Day5	5.22	115	39.8	0.058
Day8	5.13	113	38.6	0.28
Day11	5.13	112	37.7	0.325
Day15	5.41	123	41.4	0.195

1811386	RBC	Hemoglobin	Hematocrit	Reticulocyte
1011300	$(\times 10^{12}/L)$	(g/L)	(%)	$(\times 10^{12}/L)$
Day-1	6.05	123	40.8	0.126
Day1	5.52	112	37.2	0.148
Day2	6.29	125	42.1	0.096
Day3	5.76	117	38.9	0.069
Day5	5.41	112	36.8	0.078
Day8	4.84	99	33.9	0.288
Day11	4.48	91	31	0.351
Day15	5.19	110	36.6	0.385

18113837	RBC	Hemoglobin	Hematocrit	Reticulocyte
	$(\times 10^{12}/L)$	(g/L)	(%)	$(\times 10^{12}/L)$
Day-1	5.52	123	40.9	0.084
Day1	4.92	112	36.7	0.086
Day2	5.23	119	38.4	0.071
Day3	5.18	118	38.5	0.09
Day5	4.36	100	31.7	0.133
Day8	4.26	96	30.7	0.3
Day11	4.24	98	33	0.448
Day15	4.65	111	36.2	0.35

1811388	RBC	Hemoglobin	Hematocrit	Reticulocyte
1011300	$(\times 10^{12}/L)$	(g/L)	L) (%) (×10 ¹	(×10 ¹² /L)
Day-1	6.66	140	48.1	0.082
Day1	6.01	127	44.9	0.1
Day2	6.52	137	47.6	0.079
Day3	5.91	125	42.7	0.085
Day5	4.59	98	32.4	0.121
Day8	4.87	103	35.9	0.472
Day11	4.45	100	34.7	0.578
Day15	5.19	118	42.7	0.516
		•		

Time points of blood collection: D-1, 2-4 h after administration at D1, D2, D3, D5, D8, D11 and D15. The hematological parameters monitored in individual cynomolgus monkeys: RBC, hemoglobin, hematocrit and reticulocyte.