

Search History:

Limited Classification Search

The Patent Analyst performed a limited classification search within the following US, IPC, CPC, ECLA, or F-Term classification areas:

CPC Class/Subclass(es): A61K 38/00; A61K 2039/505; C07K 2317/565; C07K 2319/00 (2017.02)

IPC (8) Class/Subclass(es): A61K 39/395; C07K 16/28; C07K 16/46; C07K 19/00; C12N 15/13 (2017.01)

U.S. Class/Subclass(es): 424/133.1; 530/387.3; 530/387.1; 536/23.53; 536/23.4

See Global Search Results.

Global Patent Literature Text Search

The Patent Analyst performed the following global text search, which was not limited by classification but may or may not have been limited by other criteria:

Minesoft PatBase: <https://www.patbase.com>

#	Search query	Results
1	INV=(KIM, Chanhyuk)	6
2	INV=(YOUNG, Travis)	17
3	INV=(KIM, Minsoo)	77
4	INV=(MA, Jennifer)	5
5	INV=(PRESTA, Leonard)	83
6	INV=(SCHULTZ, Peter G)	110
7	PN=(WO0233072 OR WO06015371 OR WO09012256 OR WO09012268 OR US2009226455 OR WO09099728 OR US2009226443 OR US2009269338)	7
8	PN=(US7476724 OR US7892550 OR US8034903 OR US8088378 OR US8273352 OR US8361744 OR US8362213 OR US8466260 OR US8545850)	7
9	PN=(US2004058393 OR US2004091475 OR US2004242847 OR US2004258684 OR US2006134104 OR US2007092520 OR US2009028856 OR US2009068202 OR US2009226443 OR US2009226455 OR US2009269338 OR US2009311718)	7
10	7 or 8 or 9	10
11	PN=(WO04110369 OR WO06137354 OR WO10081679 OR WO10085590 OR WO11103426 OR WO11104696 OR JP2015196666 A OR CA2895659 OR US2016297885 OR US2010122358 OR WO0157226 OR US2004151721 OR WO05060368 OR US2009012269 OR US2010233155)	12
12	PN=(US7741448 OR US8632776 OR US8859501 OR US8859736 OR US8968734 OR US9084832 OR US9221909 OR US9303087 OR US6696550 OR US6727349 OR	6

	US7442775 OR US7473421 OR US7566450 OR US8227211 OR US8753828)	
13	PN=(US2008057519 OR US2009110682 OR US2010260752 OR US2010267935 OR US2012045437 OR US2012122120 OR US2012308572 OR US2013309251 OR US2014363447 OR US2015017165 OR US2015139900 OR US2016002357 OR US2016229909 OR US2016297885 OR US2010122358)	9
14	11 or 12 or 13	12
15	PN=(WO07042261 OR WO08119567 OR WO08119566 OR WO08119565 OR WO10037835 OR WO10037836 OR WO10037838 OR WO10037837)	5
16	PN=(US8236308 OR US8846042 OR US9212225)	3
17	PN=(US2009252683 OR US2010150918 OR US2011262439 OR US2011275787 OR US2011293619 OR US2012034228 OR US2012244162 OR US2012321626 OR US2013058936)	7
18	15 or 16 or 17	8
19	PN=(WO07042261 OR WO12158818 OR WO13026833 OR WO13026831 OR WO14056783 OR WO14110601 OR US2014242080 OR US2014242079 OR WO14131694 OR WO14145806 OR US2014294833 OR US2014302064 OR EP2839842)	10
20	PN=(US8236308 OR US8846042 OR US9212225 OR US9493563 OR US8236308 OR US8846042 OR US9212225)	4
21	PN=(US2009252683 OR US2012321626 OR US2013058937 OR US2013078249 OR US2013129729 OR US2014242079 OR US2014242080 OR US2014288275 OR US2014294833 OR US2014302064 OR US2014363426 OR US2014370013 OR US2014377270 OR US2015056206)	7
22	19 or 20 or 21	12
23	PN=(AU199350602 A OR WO04065569 OR WO04097372 OR WO07042261 OR WO07058725 OR EP1857116 OR WO07143701 OR WO08043146 OR WO08067283 OR WO07131242 OR WO08119567 OR WO08119565 OR US2008262203 OR WO08156621)	12
24	PN=(US7214545 OR US7267994 OR US7339035 OR US7528235 OR US7820787 OR US8236308 OR US8435513 OR US8444971 OR US8828384 OR US8834875 OR US8846042 OR US8906369 OR US8945547)	9
25	PN=(US2004146934 OR US2004181042 OR US2004198962 OR US2005026263 OR US2005042695 OR US2005059100 OR US2008262203 OR US2009017040 OR US2009252683 OR US2010036101 OR US2010136009 OR US2010150918 OR US2010291097 OR US2011229475)	10
26	23 or 24 or 25	17
27	PN=(WO07042261 OR WO12158818 OR WO13026833 OR WO13026831 OR WO14056783 OR WO14110601 OR US2014242080 OR US2014242079 OR WO14131694 OR WO14145806 OR US2014294833 OR US2014302064 OR EP2839842)	10
28	PN=(US8236308 OR US8846042 OR US9212225 OR US9493563)	4

29	PN=(US2009252683 OR US2012321626 OR US2013058937 OR US2013078249 OR US2013129729 OR US2014242080 OR US2014288275 OR US2014294833 OR US2014302064 OR US2014363426 OR US2014370013 OR US2014377270 OR US2015056206)	6
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31	PN=(AU199350602 A OR WO07042261 OR WO12158818 OR WO13026833 OR WO13139956 OR WO13026831 OR WO14056783 OR WO14110601 OR WO14108483 OR US2014242080 OR US2014242080 OR US2014242079 OR WO14131694 OR WO14145806)	11
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36	PN=(US7101978 OR US7435799 OR US7476724 OR US7528236 OR US7560112 OR US7575893 OR US7632499 OR US7687605 OR US7741450 OR US7763245)	8
37	PN=(US2004131612 OR US2004131613 OR US2004229310 OR US2005042664 OR US2006269549 OR US2006093601 OR US2006122377 OR US2006134104)	6
38	35 or 36 or 37	11
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41	PN=(US2002018750 OR US2002146753 OR US2004175385 OR US2004260068 OR US2005037420 OR US2005042664)	6
42	39 or 40 or 41	11
43	PN=(US2015166661 OR WO14110601 OR WO14145806 OR US2014294833 OR US2014302064 OR WO15149077 OR WO16014974 OR WO12158818 OR WO13055809 OR WO14056783 OR WO14110601)	7
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47	PN=(WO9215683 OR EP0584421 OR WO9404678 OR WO9535375 OR WO9807444 OR US5817311 OR	10

	US5951983 OR WO9955369 OR WO0005268 OR WO0130393 OR WO0131065 OR WO0168708 OR WO0183806)	
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49	PN=(US2002042089 OR US2002062009 OR US2002082396 OR US2002131968 OR US2002146753 OR US2002151682 OR US2003026805 OR US2003045691 OR US2003079253)	8
50	47 or 48 or 49	18
51	PN=(CN104987421 A OR WO09111507)	2
52	PN=(US8114968)	1
53	PN=(US2009275124 OR US2009311183)	2
54	51 or 52 or 53	3
55	PN=(WO9947925 OR US2003175845 OR WO04082617 OR WO06089294 OR EP1944315 OR WO09097692 OR US2012245857 OR WO12155019 OR US2013287802 OR WO15131169 OR EP3037530 OR WO16155620 OR WO16143227)	13
56	PN=(US7939075 OR US8491903 OR US8679767 OR US8993729 OR US9144229 OR US9405884 OR US8741293 OR US5219996 OR US8691730 OR US8877688 OR US8637456 OR US9334309 OR US8388972)	9
57	PN=(US2003175845 OR US2005048574 OR US2009028869 OR US2012039897 OR US2012040382 OR US2012245857 OR US2012315645 OR US2013023653 OR US2014080138 OR US2014329996 OR US2014343451 OR US2015057169 OR US2016370372)	9
58	55 or 56 or 57	19
59	PN=(WO16054114 OR WO15195904 OR WO15196167 OR WO15196089 OR WO15189249 OR WO08138139 OR WO11107544 OR WO09150426 OR WO12064733)	9
60	PN=(US8741293 OR US5219996 OR US8691730 OR US8877688 OR US8388972 OR US8501917 OR US8728983)	6
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62	59 or 60 or 61	14
63	PN=(WO16054114 OR WO08021290 OR WO13040099 OR US2013287802 OR CN105277638 A OR WO08021290 OR WO15195904 OR WO15196167 OR WO15196089 OR WO08021290)	8
64	PN=(US8586006 OR US6090381)	2
65	PN=(US2012087862 OR US2014106981 OR US2012087862 OR US2016015827 OR US2016015831 OR US2016051695)	4
66	63 or 64 or 65	9

67	PN=(WO15131169 OR WO15189249 OR WO16054114 OR WO15191883 OR WO12097333 OR WO15187428 OR WO08021290)	7
68	PN=(US9540438 OR US8586006 OR US6090381)	3
69	PN=(US2016370372 OR US2012183566 OR US2015352225 OR US2012087862 OR US2014106981)	4
70	67 or 68 or 69	8
71	PN=(WO16054114 OR WO15058069 OR WO16036902 OR WO16131769 OR CN105277638 A OR WO08094538 OR WO15058069 OR WO16036902 OR WO08021290 OR WO13138310 OR CN103235136 A OR WO08021290)	9
72	PN=(US7884184 OR US8586006 OR US5219996 OR US6090381 OR US6254868)	4
73	PN=(US2016243221 OR US2009018067 OR US2011182921 OR US2016000892 OR US2016243221 OR US2012087862 OR US2014106981 OR US2012087862 OR US2002193572)	4
74	71 or 72 or 73	12
75	PN=(WO15131169 OR WO16054114 OR WO08021290 OR WO15189249 OR WO15058069 OR WO16036902 OR WO08094538)	7
76	PN=(US8586006 OR US7884184 OR US5219996 OR US6090381 OR US6254868 OR US6953675)	5
77	PN=(US2016370372 OR US2012087862 OR US2014106981 OR US2016243221 OR US2009018067 OR US2011182921 OR US2016000892 OR US2002193572)	5
78	75 or 76 or 77	10
79	PN=(WO14141145 OR WO16054114 OR WO16010002 OR WO16155620 OR US2012245857 OR KR20160033987 A OR WO0122920 OR EP2966085)	8
80	PN=(US5219996 OR US7745391 OR US9405884 OR US7745391 OR US8637456 OR US9334309 OR US8388972 OR US8501917 OR US8728983 OR US8771960 OR US5739277 OR US5747035 OR US5869046 OR US5914112)	12
81	PN=(US2007083334 OR US2012245857 OR US2003109690 OR US2014065171 OR US2007083334 OR US2011201547 OR US2014206603 OR US2016317612 OR US2005059082 OR US2009042254 OR US2010055034 OR US2011033378)	9
82	79 or 80 or 81	22
83	PN=(WO14172664 OR WO04110472 OR WO05113606 OR WO08019147 OR WO08019143 OR WO08052933 OR WO10129600 OR JP4857396 B1 OR WO13115926 OR WO14145050 OR WO16054114)	10
84	PN=(US6809185 OR US7576190 OR US8236931 OR US8501693 OR US9243071 OR US9493530 OR US6809185 OR US8586006 OR US6992174)	8
85	PN=(US2007036806 OR US2007237768 OR US2009209469 OR US2010144621 OR US2012052069 OR US2014323396 OR US2014335087 OR US2014349369 OR US2012087862 OR US2014106981 OR US2016370372)	8
86	83 or 84 or 85	15

87	PN=(WO14145016 OR WO16054114 OR US2006134709 OR WO06088494 OR US2007036799 OR US2012263711 OR US2012276094 OR WO16004389 OR WO12087746)	7
88	PN=(US8216574 OR US8871204 OR US7476724 OR US7892550 OR US8034903 OR US8088378 OR US8273352 OR US8361744 OR US8362213 OR US8466260 OR US8545850)	9
89	PN=(US2014314711 OR US2013011386 OR US2015139984 OR US2016222082 OR US2016207980 OR US2016222082 OR US2014065171)	5
90	87 or 88 or 89	17
91	10 and (14 or 18 or 22)	0
92	38 and (14 or 18 or 22)	0
93	42 and (14 or 18 or 22)	0
94	46 and (14 or 18 or 22)	6
95	50 and (14 or 18 or 22)	0
96	94 and (26 or 30 or 34)	6
97	94 and (54 or 58 or 62 or 66 or 70 or 74 or 78 or 82 or 86 or 90)	0
98	38 and (26 or 30 or 34)	0
99	42 and (26 or 30 or 34)	0
100	46 and (26 or 30 or 34)	6
101	50 and (26 or 30 or 34)	0
102	PN=(WO06128690 OR US2010310464 OR WO12123586 OR US2013196379 OR US2013236535 OR US2015166661 OR US2016208003 OR US2016319003 OR WO05005604 OR WO05032460 OR US2006051844 OR WO06039631 OR WO06039470 OR WO06039638 OR US2006127404)	12
103	PN=(US7964707 OR US8461304 OR US8703427 OR US8822664 OR US8834882 OR US9145461 OR US7393662 OR US7718176 OR US7393648 OR US7399594 OR US7927817 OR US8067167 OR US8198508 OR US8282924)	7
104	PN=(US2009053247 OR US2010168393 OR US2010310464 OR US2013196379 OR US2013236535 OR US2014141016 OR US2014147450 OR US2014235843 OR US2015166661 OR US2015266963 OR US2016208003 OR US2005033029 OR US2005129695 OR US2005232923)	8
105	102 or 103 or 104	18
106	PN=(WO16168773)	1
107	PN=(WO02062850 OR GB2380127 OR WO03026692 OR GB2408508 OR WO06009525 OR US2006240001 OR WO06128690 OR WO07110631 OR WO07149032 OR WO08076487 OR WO08079466 OR WO08140493)	10
108	PN=(US5585097 OR US5968509 OR US6706265 OR US7119172 OR US7452537 OR US7928214 OR US7964707)	9

	OR US7988971 OR US8030457 OR US8044181 OR US8114968)	
109	PN=(US2002147312 OR US2004091494 OR US2004202657 OR US2005037004 OR US2007104715 OR US2006088526 OR US2006165691 OR US2006165692 OR US2006165693 OR US2006235206 OR US2006269547 OR US2006240001 OR US2007134241 OR US2007154477)	6
110	107 or 108 or 109	16
111	94 and (105 or 106 or 110)	0
112	PN=(WO14153002 OR WO14153164 OR US2007065437 OR WO05118635)	3
113	PN=(US2017002076 OR EP2970505 OR WO12098238 OR US2012189621)	2
114	46 and 14	0
115	46 and 18	1
116	46 and 22	6
117	94 and 26	1
118	94 and 30	6
119	94 and 34	6
120	PN=(US2012189621 OR WO14153164)	2
121	TA=(CD3)	1338
122	FT=(CD3 and antibod*)	28786
123	FT=(CD3 and antibod* and (unnatural W20 (amino acid%)))	1979
124	FT=(CD3 and antibod* and (unnatural W20 (amino acid%) and target*))	1937
125	121 and 123	26
126	121 and 124	26
127	IC=("C12N15/13" OR "A61K39/395" OR "C07K16/28" OR "C07K16/46" OR "C07K19/00")	63140
128	CPC=("A61K2039/505" OR "A61K38/00" OR "C07K2319/00" OR "C07K2317/565")	57246
129	UC=("530/387.3" OR "530/387.1" OR "536/23.53" OR "536/23.4" OR "424/133.1")	17599

Google Patents: <https://patents.google.com>

#	Search query	Results
1	CD3 antibody	76100
2	CD3 antibody unnatural	7530
3	CD3 antibody unnatural targeting	6610

Computer Accessed Text Databases Searched

The Patent Analyst searched the following computer accessed text databases:

PubMed.gov (NCBI): <http://www.ncbi.nlm.nih.gov/pubmed>

#	Search query	Results
1	Search CD3 antibody	17665
2	Search (CD3 antibody) AND unnatural	3
3	Search (((CD3 antibody) AND unnatural)) AND targeting	1

Proquest: <http://www.proquest.com/>

#	Search query	Results
1	au(KIM, Chanhyuk)	1
2	au(YOUNG, Travis) and (CD3 or anti-CD3)	1
3	au(KIM, Minsoo) and (CD3 or anti-CD3)	7
4	au(MA, Jennifer) and (CD3 or anti-CD3)	6
5	au(PRESTA, Leonard) and (CD3 or anti-CD3)	4
6	au(SCHULTZ, Peter G) and (CD3 or anti-CD3)	14

Date search was completed: 05 July 2017

MY/JJ