**Figure S1**

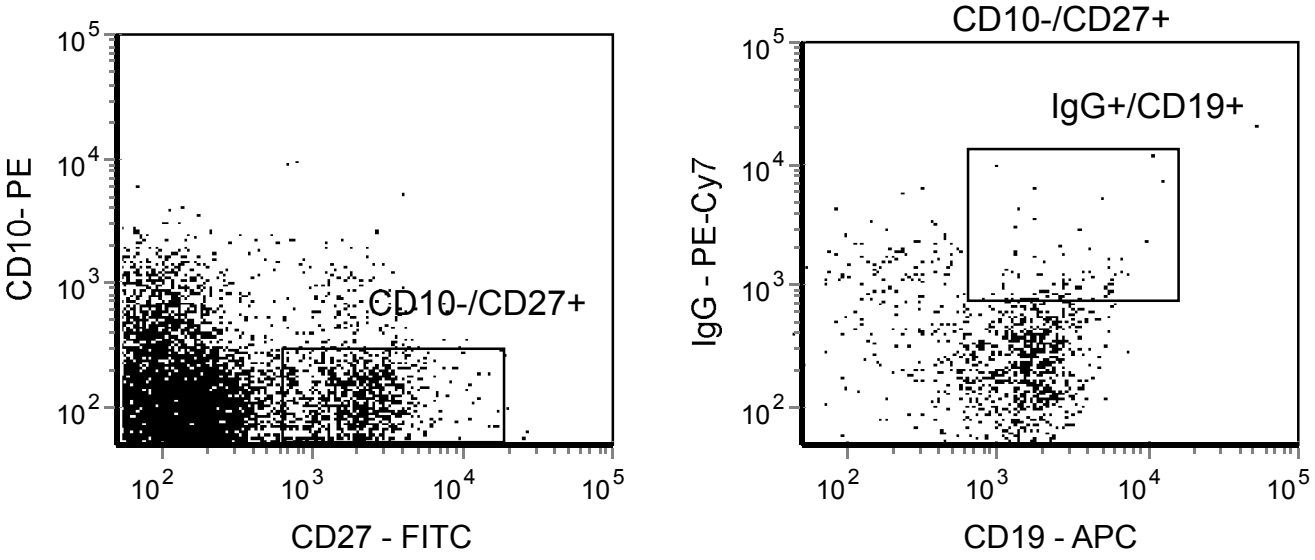
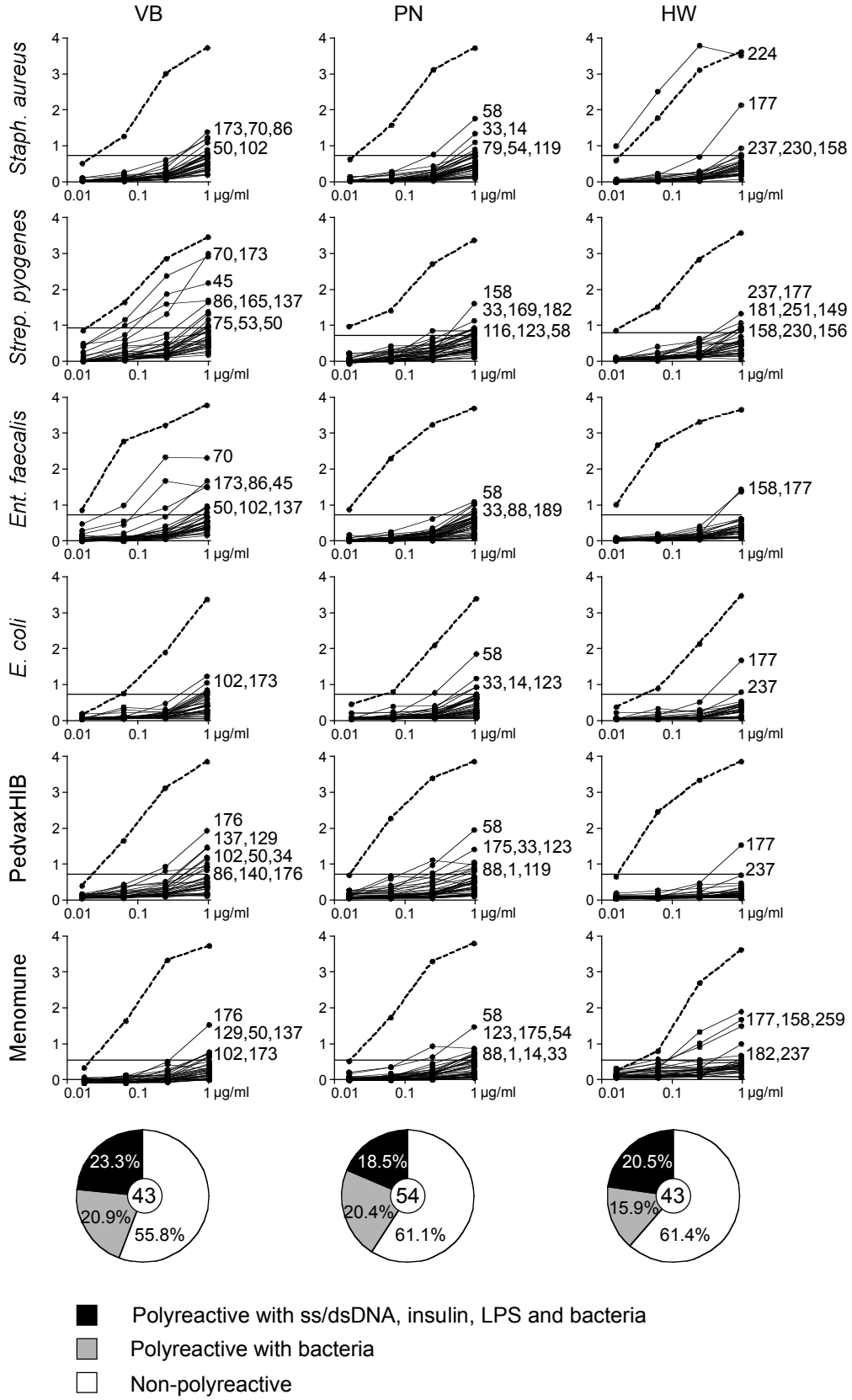

CD10- PE
CD27 - FITC
CD10-/CD27+
IgG - PE-Cy7
CD19 - APC
CD10-/CD27+
IgG+/CD19+

**Figure S2**


VB
PN
HW
Staph. aureus
Strep. pyogenes
Ent. faecalis
E. coli
PedvaxHIB
Menomune
173,70,86
50,102
58
33,14
79,54,119
224
177
237,230,158
70,173
45
86,165,137
75,53,50
158
33,169,182
116,123,58
237,177
181,251,149
158,230,156
70
173,86,45
50,102,137
58
33,88,189
158,177
102,173
58
33,14,123
177
237
176
137,129
102,50,34
86,140,176
58
175,33,123
88,1,119
177
237
176
129,50,137
102,173
58
123,175,54
88,1,14,33
177,158,259
182,237
0.01
0.1
1 µg/ml
23.3%
43
20.9%
55.8%
18.5%
54
20.4%
61.1%
20.5%
43
15.9%
61.4%
Polyreactive with ss/dsDNA, insulin, LPS and bacteria
Polyreactive with bacteria
Non-polyreactive

## Figure S3

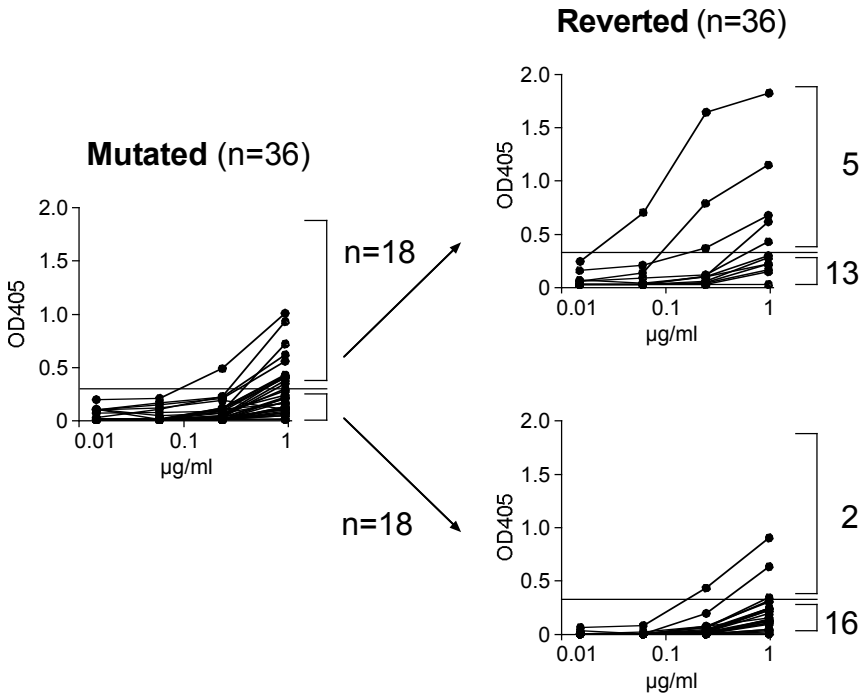
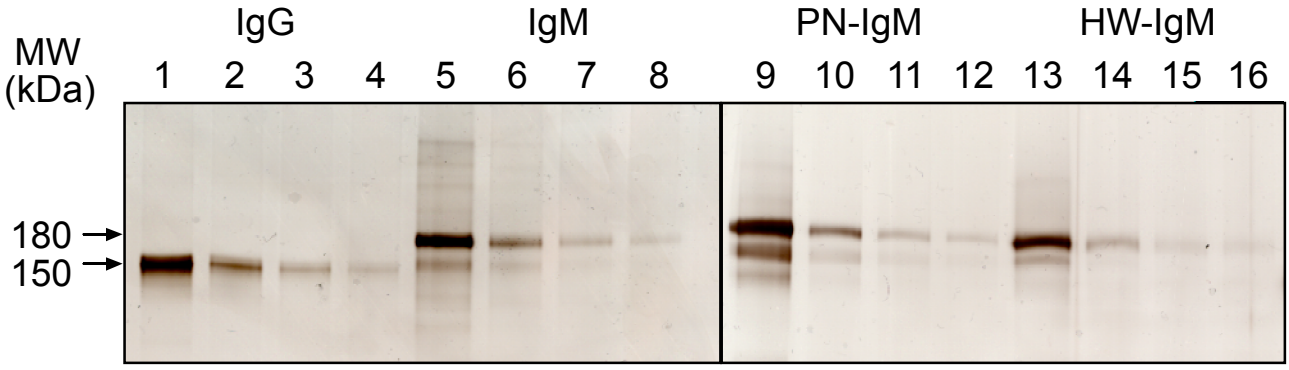

Reverted (n=36)
Mutated (n=36)
OD405
2.0
1.5
1.0
0.5
0
0.01
0.1
1
µg/ml
n=18
n=18
5
13
2
16

**Figure S4**


IgG
IgM
PN-IgM
HW-IgM
MW
(kDa)
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
180
150