Supplementary Table 4. Comparison of the expression of the mouse GC B-cell related genes in cluster 20 by human GC B cells

Cluster 20 genes [a]	Expression higher in human GC B cells when compared to the other populations[b]	*P* value (expression level in human GC B cells vs. other B-cell populations)
ADA	6.9	8.8×10^{-11}
AICDA	14.7	0.0006
AMZ2	2.4	3.4×10^{-7}
ARHGAP8	not expressed	-
BASP1	no	n.s.
BMPR1A	5.2	2.5×10^{-7}
C2CD2L	not expressed	-
CCRL1	4.7	0.006
CDK14	no	n.s.
CNST	no	n.s.
CORO2B	not expressed	-
EAF2	no	n.s.
EFNB1	not expressed	-
EIF5A2	not expressed	-
ERP44	no	n.s.
FAS	no	n.s.
FGF11	no	n.s.
GCET2	11.5	3.9×10^{-6}
GCNT3	not expressed	-
GNAZ	3.7	7.6×10^{-5}
H1FX	5.0	0.0001
HAVCR1	not expressed	-
HELQ	no	n.s.
HPSE	not expressed	-
DIDO1	no	n.s.
ILDR1	not expressed	-
LPIN2	no	n.s.
MAPRE2	no	n.s.
MBD2	no	n.s.
MBD4	no	n.s.
MTMR14	no	n.s.
MYBL1	21.0	0.0003
NEIL1	2.2	3×10^{-6}
OPTN	no	n.s.
PARM1	no	n.s.
PCYT1B	no	n.s.
PDZD2	no	n.s.
PHF19	7.1	3×10^{-10}
PLXNB2	2.8	0.009
PPAP2A	3.1	0.0002

PPP4R2	2.5	3.7×10^{-5}
RASSF6	3.5	0.0002
RGS13	5.4	8.1×10^{-6}
RGS9	no	n.s.
RNF121	2.6	0.0005
S1PR2	7.6	7×10^{-10}
SLC41A2	7.3	0.0004
STAU2	7.3	3×10^{-8}
TNFSF9	no	n.s.
UPRT	2.5	0.0003
VWA3B	no	n.s.

[a], Equivalent probe set on the Affymetrix human genome U133A Plus 2.0 gene expression array was selected.

[b], These data were performed on Affymetrix human genome U133A Plus 2.0 gene expression arrays and the expression of equivalent mouse gene probe sets were compared. Data sources: Ref. [1]; GSE12366, Ref. [2]; GSE15271, Ref. [3]. Fold change in mean gene expression level in human GC B cells when compared to naïve, memory and plasma B cells. Cluster 20 genes were identified with expression significantly > 2.0 X ($P < 0.05$) in human GC B cells when compared to B cells, naïve and memory B cells.

Gene symbols in bold type indicate those significantly higher > 2.0 X in human GC cells. "no", gene expressed by human GC B cells but at levels which were not significantly different to those in other B-cell populations. n.s., not significant.

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2. Longo NS, Lugar PL, Yavuz S*, et al.* Analysis of somatic hypermutation in X-linked hyper-IgM syndrome shows specific deficiencies in mutational targeting. *Blood* 2009; **113:**3706-15.
3. Caron G, Le Gallou S, Lamy T, Tarte K, Fest T. CXCR4 expression functionally discriminates centroblasts versus centrocytes within human germinal center B cells. *J Immunol* 2009; **182:**7595-602.