

ARTICLE

Fc γ RIIb differentially regulates pre-immune and germinal center B cell tolerance in mouse and human

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B

H fi B

() v. B fi v.

H B fi B Y H B

() B

v. H B

(y) v.

v. y. B Y

y

Y B Y

fi Y

n Y

.....γ.....'B.....-B.....y-y.....
.....y.....γ.....fi.....y.....y.....B^y.....
.....y.....

FcγRIIb limits autoreactive B-cell anergy.....
.....γ.....y

..... v y
..... B Y
..... v y B
..... B 2 (..... B
..... fi B H fi H

... y ... 2 v ...
(... y ...) ... v ... y ... B
... y ... Y ... 2
y ... y ...

... y ... B ... B
... y ... fi ... v ... B ... B
(... y ...) ... B ...
y ... B ...

B
B
Y
B y H
fi v B y Y

F . 5 The impact of $Fc\gamma RIIB$ on GC tolerance is also observed with a soluble autoantigen. ↯ Wild type and sHEL recipients (both CD45.2) were irradiated

v 2B 4 34
+ v fi y + + B
v y 2B
v y
v B
v y ()
v y
fl

1. Y の条件付き期待値 $E(Y|X)$ と条件付き分散 $V(Y|X)$ を求めよ。

(μ, σ) について、

$(\mu - \sigma, \mu + \sigma)$ について、

$(\mu - 2\sigma, \mu + 2\sigma)$ について、

1H

$(\mu - \sigma, \mu + \sigma)$

$(\mu - 2\sigma, \mu + 2\sigma)$

$(\mu - \sigma, \mu + \sigma)$

$(\mu - 2\sigma, \mu + 2\sigma)$

$(\mu - \sigma, \mu + \sigma)$

$(\mu - 2\sigma, \mu + 2\sigma)$

$(\mu - \sigma, \mu + \sigma)$

B
B & v. fi ()
13
()
B & v. fi
B y y y y 307 B ()
fi y 187 ()
& v. fi y v.y
29 B ()
B v. fi E 207
B ()
y E 205 ()
v.
157 () B
y y 51
()
C B 10 ()
y v. v. v.
E 209 B ()
() B E 197 () B
y B + B
181 ()
y & y y y
38 ()
y & n