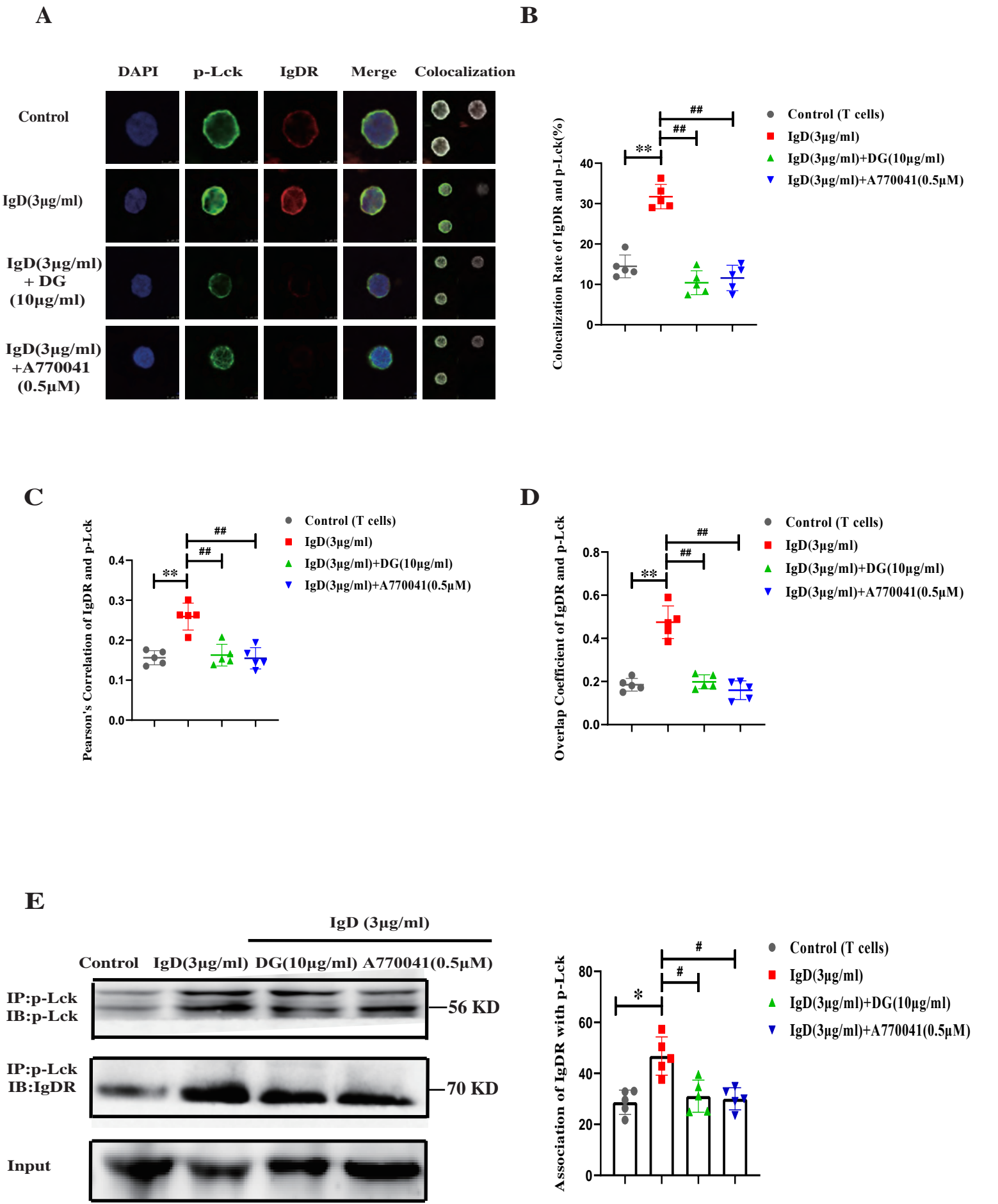
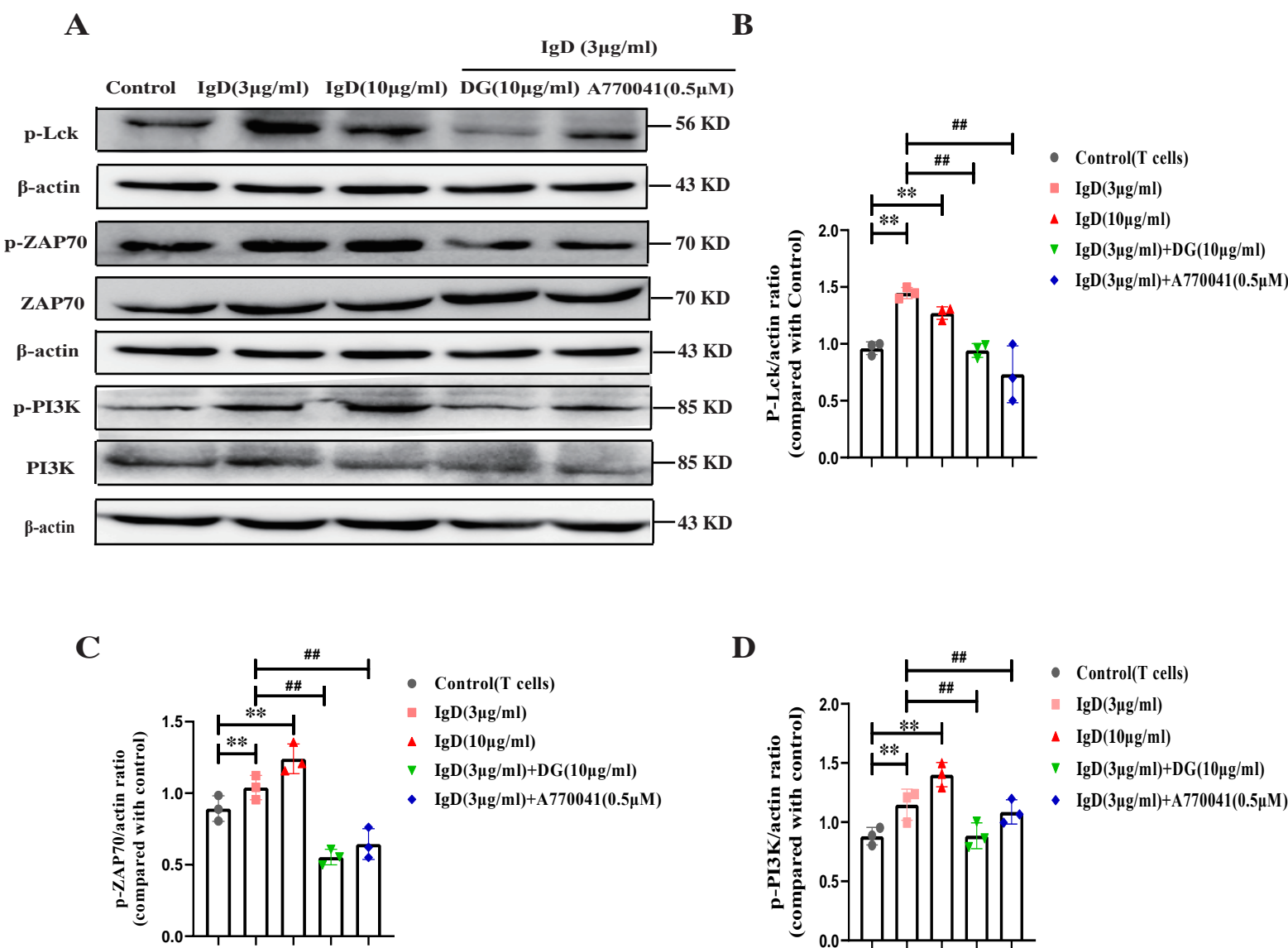


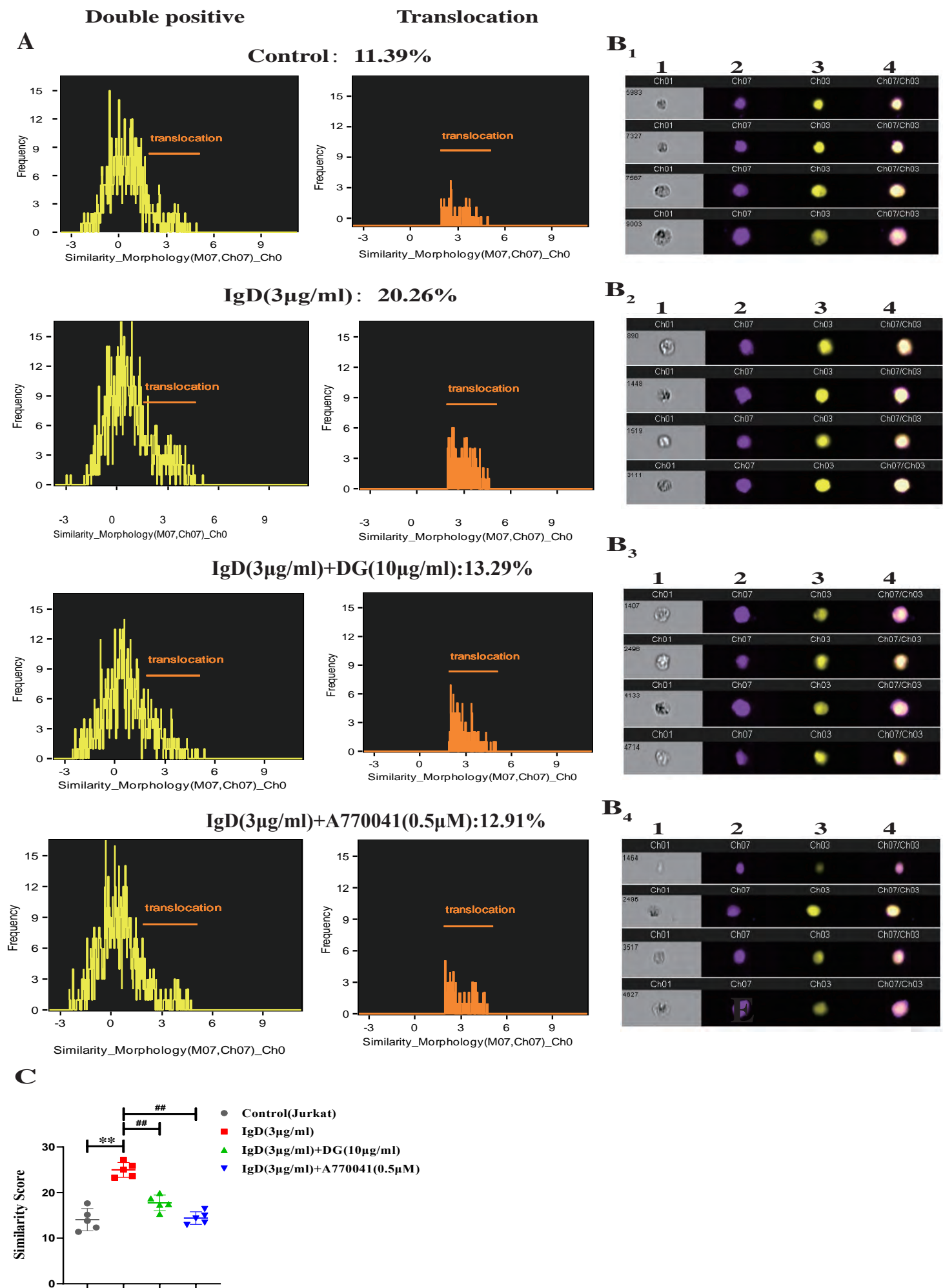
**Fig 1**  
**CD4<sup>+</sup> T cells of healthy controls**



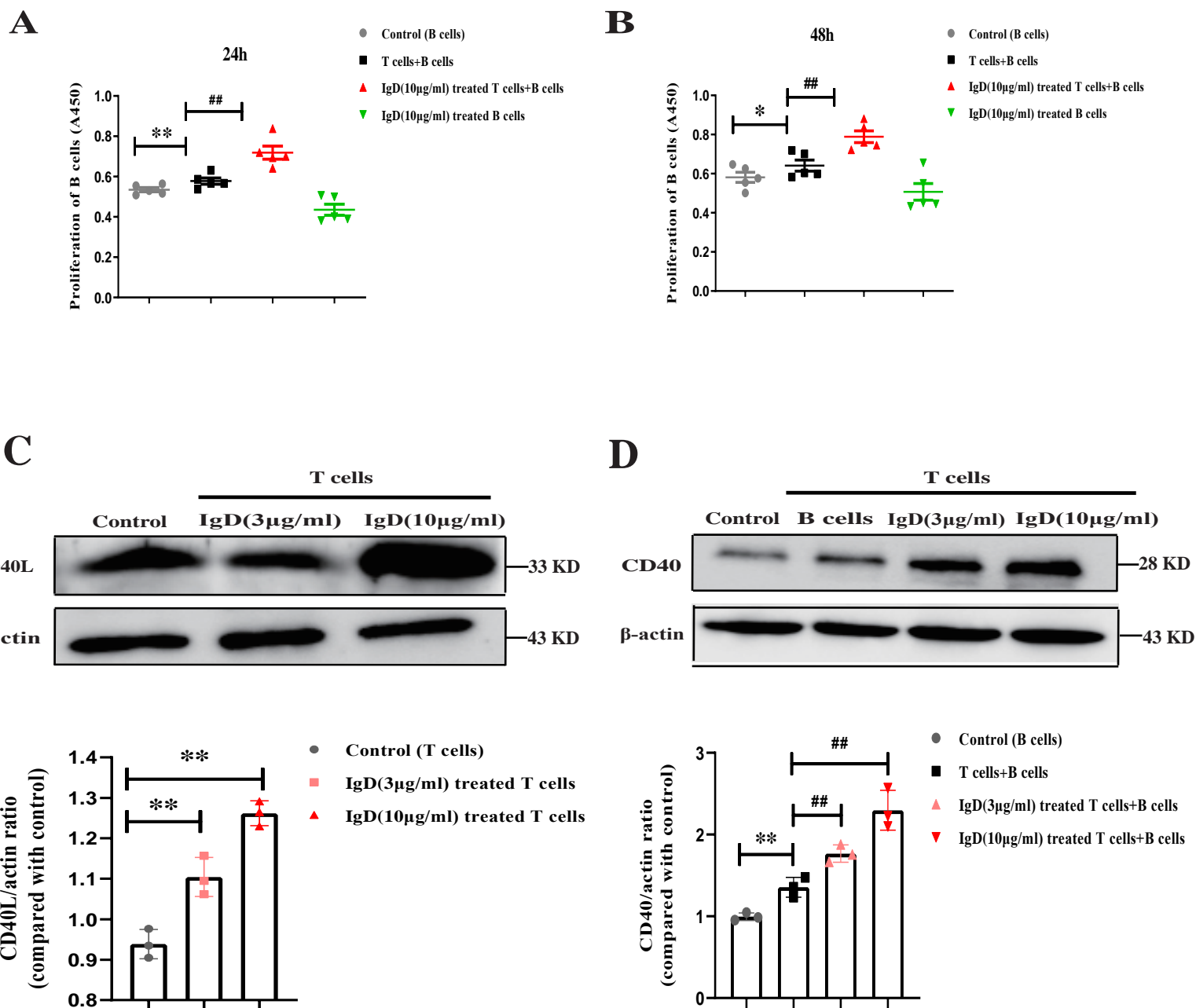
**Fig 2**  
**CD4<sup>+</sup> T cells of healthy controls**



**Fig 3**  
**NF-κB translocation of Jurkat cells**



### CD4<sup>+</sup> T cells /CD19<sup>+</sup> B cells of healthy controls

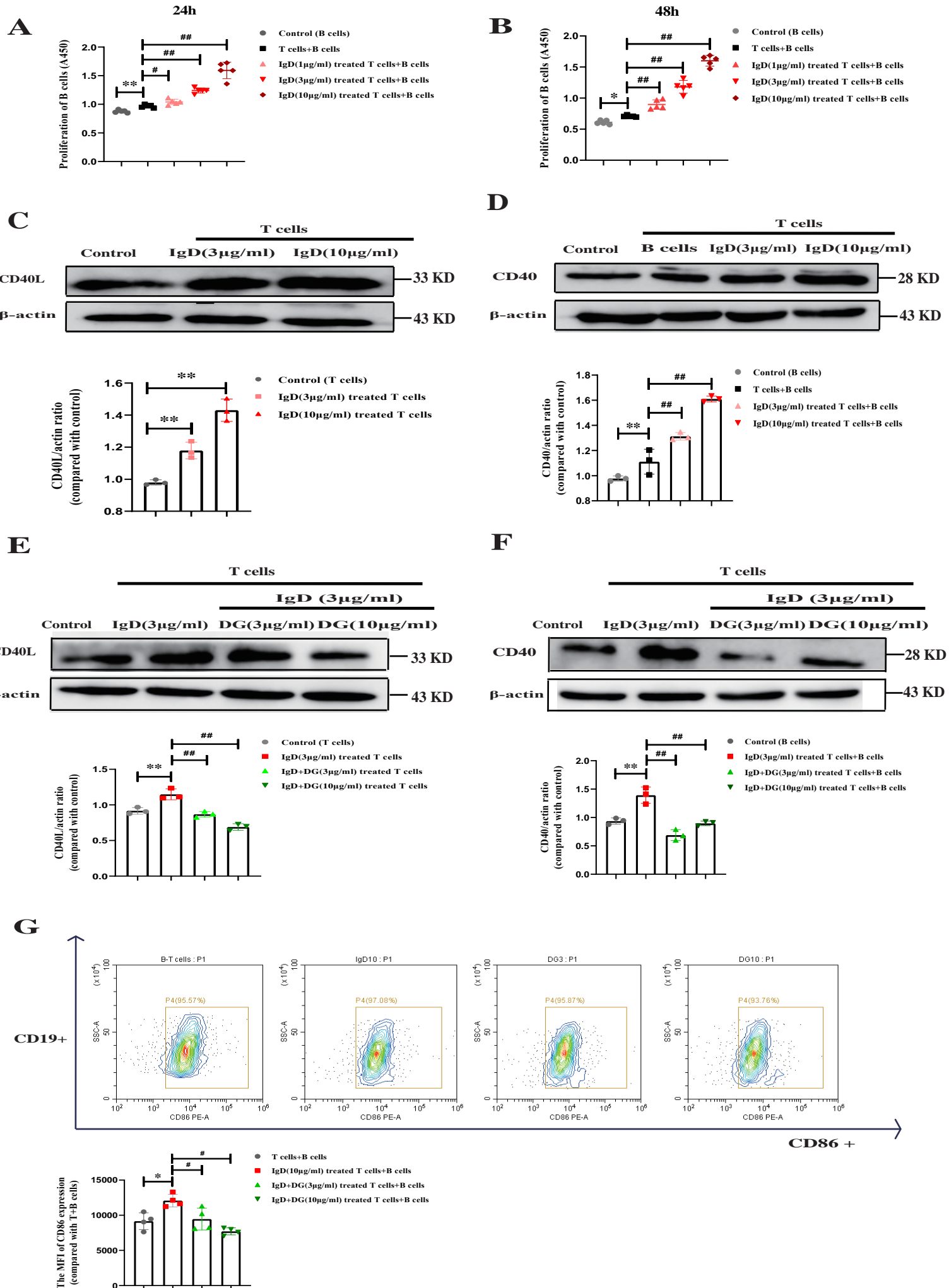




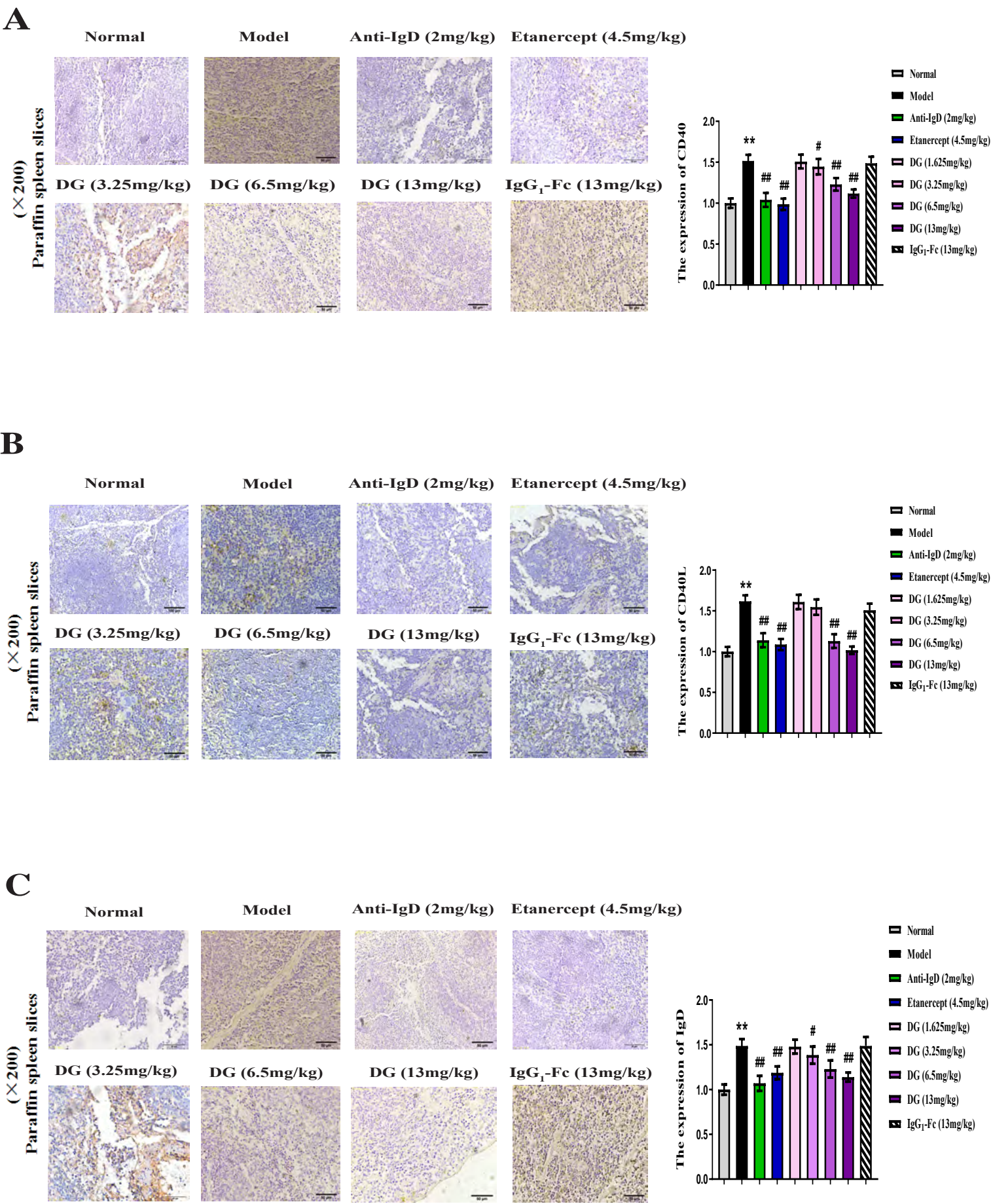
# Human T-B cells co-culture

## Fig 5

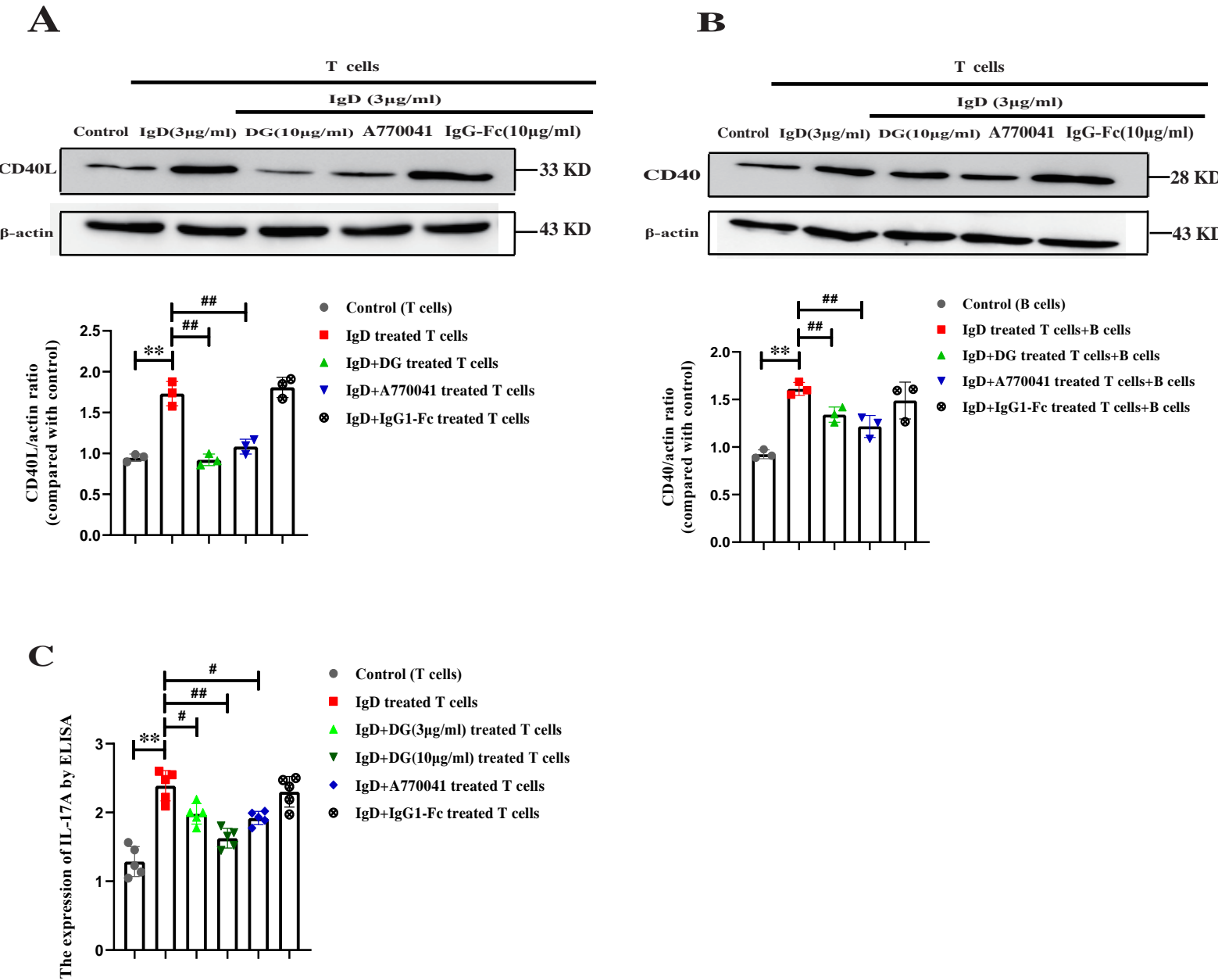
### CD4<sup>+</sup> T cells /CD19<sup>+</sup> B cells of RA patients



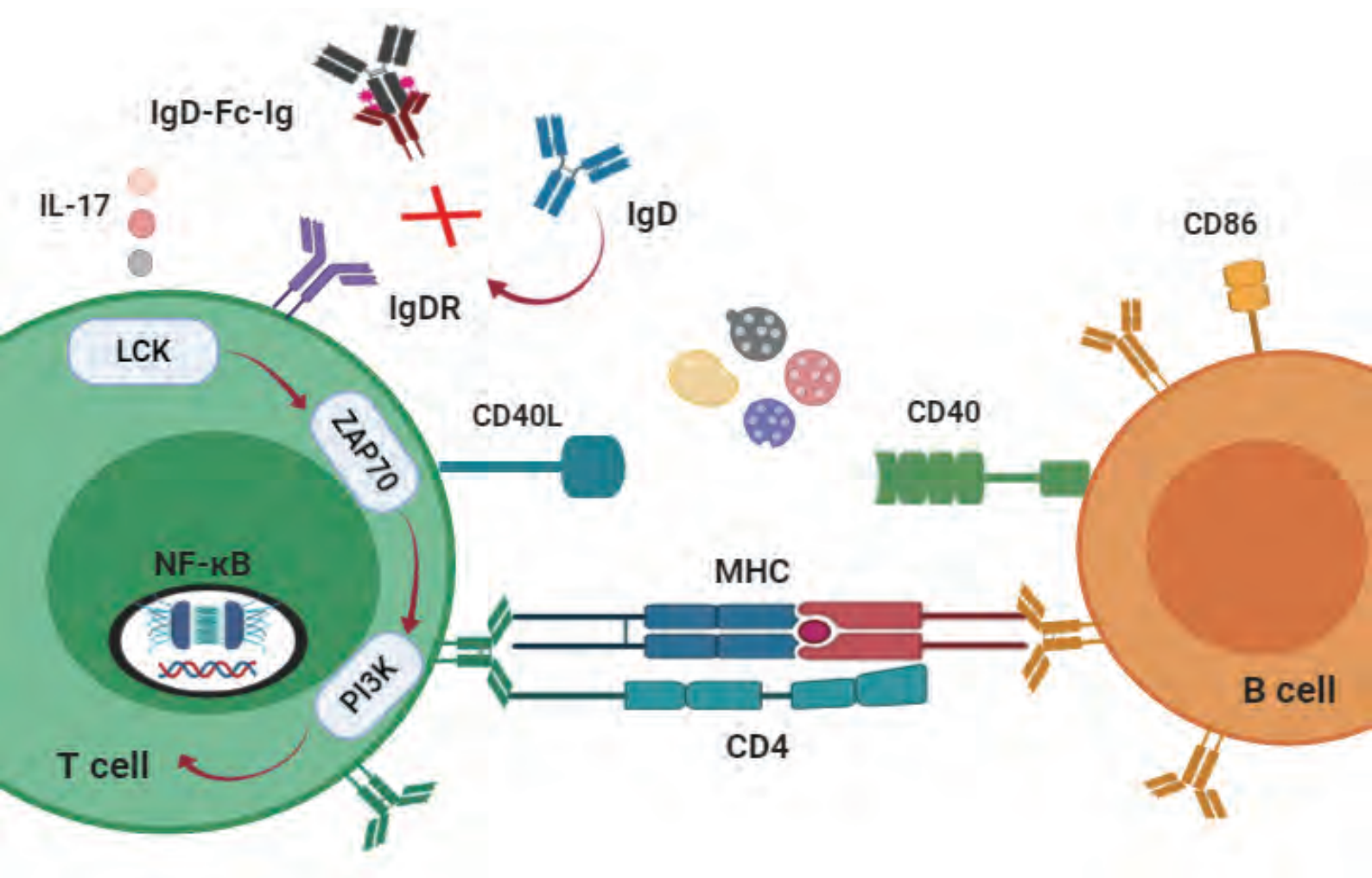
**Fig 6**  
**CIA mice *in vivo***



**Fig 7**  
CIA mice *in vitro*



**Fig 8**





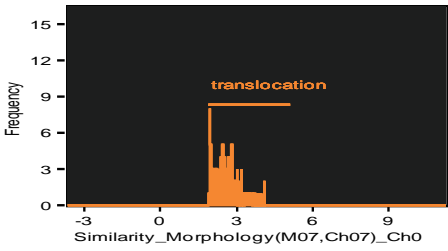
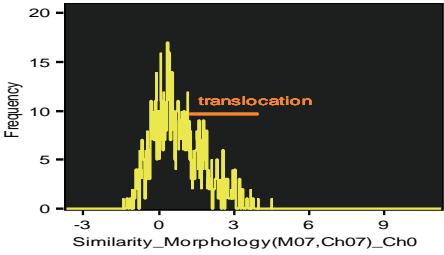
Supplementary data

Double positive

Translocation

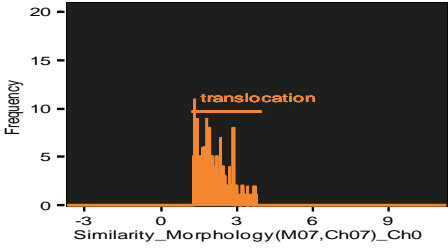
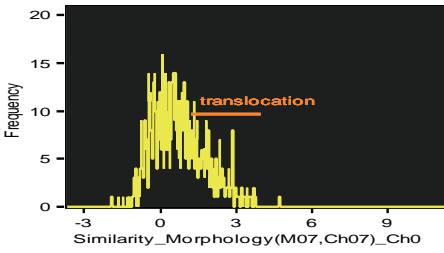
A<sub>1</sub>

Control: 14.89%



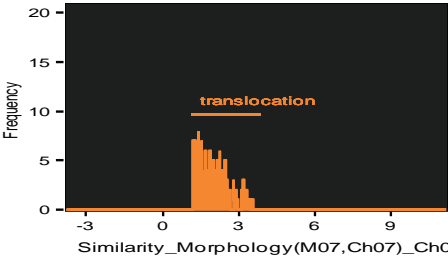
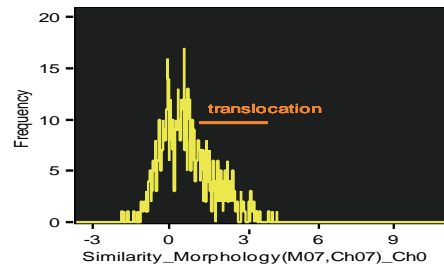
IgD(3μg/ml)+2h: 23.26%

A<sub>2</sub>



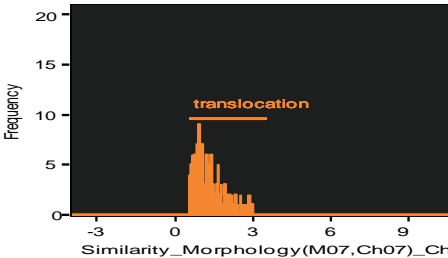
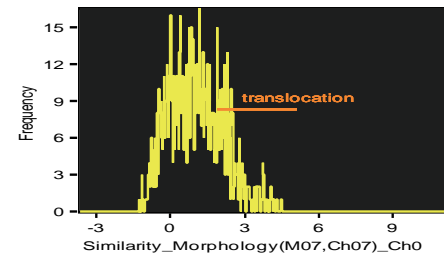
IgD(3μg/ml)+4h: 27.17%

A<sub>3</sub>



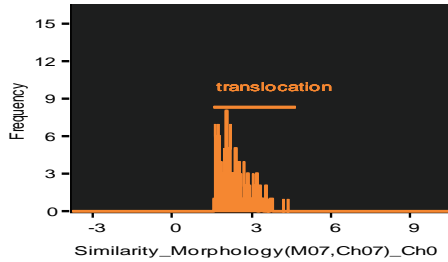
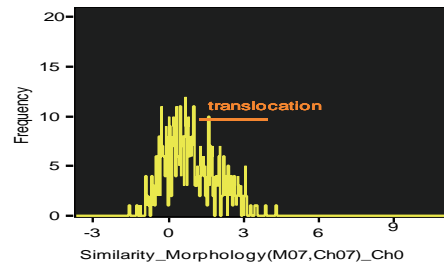
IgD(3μg/ml)+8h: 23.95%

A<sub>4</sub>



IgD(3μg/ml)+12h: 20.13%

A<sub>5</sub>



B

