

## **Supplementary Figure 1**

## Supplementary Figure 1. CHIR-AB1 and related proteins

Ribbon diagram of CHIR-AB1 (*pink*) superimposed on the D1 domains of (a) KIR2DL1 (light *green*), (b) Fc $\alpha$ RI (*black*), (c) NKp46 (*light blue*). The regions involved in IgA binding in Fc $\alpha$ RI are highlighted in *yellow*. (d-f) Electrostatic potentials on CHIR-AB1 relatives in the region corresponding to the CHIR-AB1 dimerization interface. Electrostatic potential is plotted from – 10.3 kT/e (electronegative; *red*) to +10.3 kT/e (electropositive; *blue*) with *white* indicating electroneutrality. Compare to the electrostatic potential surface of the CHIR-AB1 monomer shown in Figure 3c.