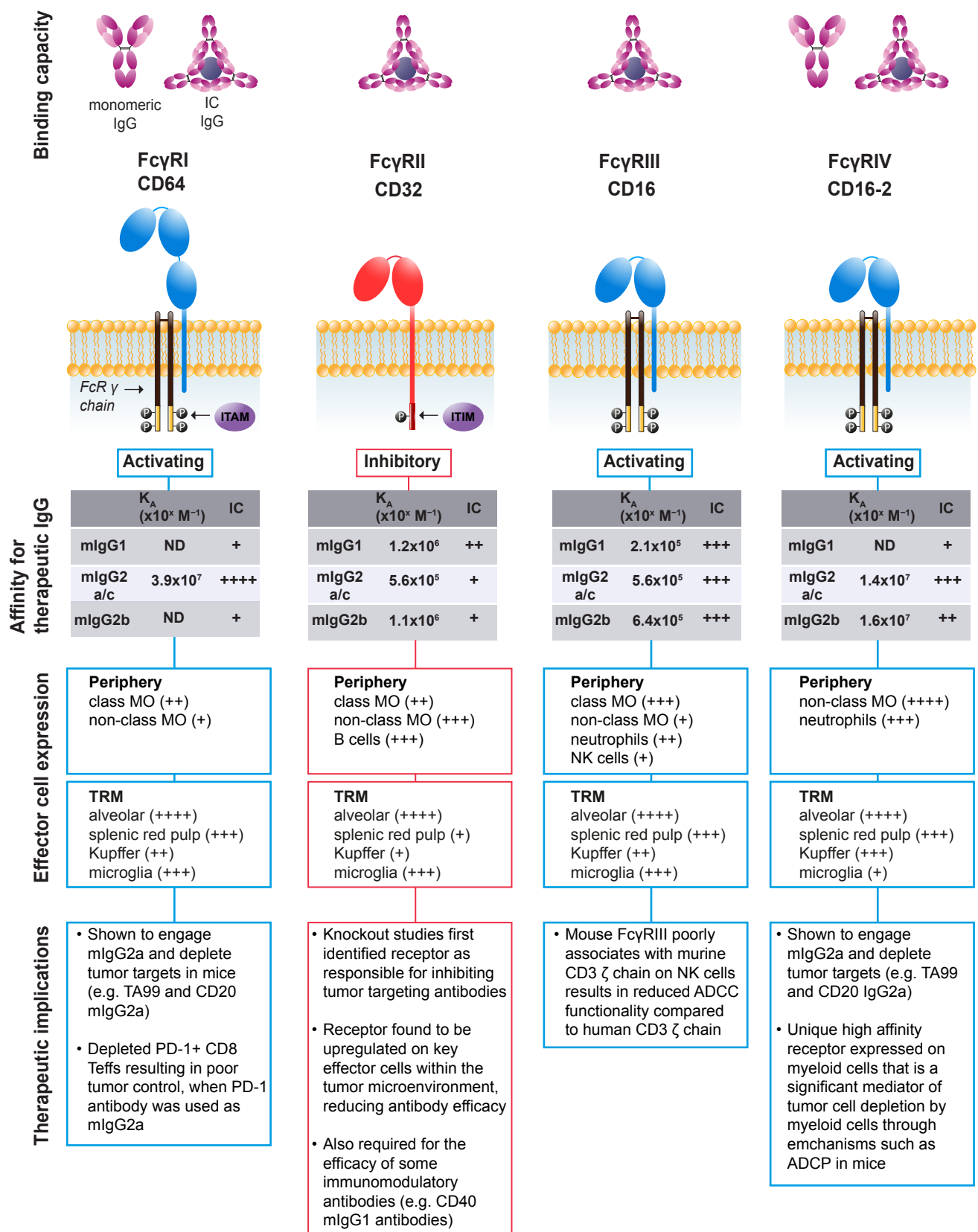


Fcγ receptors and immunomodulatory antibodies in cancer

In the format provided by the
authors and unedited



Supplementary Figure 1: Mouse Fc γ receptors, their expression pattern, and affinity for IgG1, IgG2a/c and IgG2b: Fc γ receptors elicit the action of immunoglobulin (IgG) antibodies. They are broadly considered as activating, signaling via an associated immunoreceptor tyrosine-based activation motif (ITAM) (FcγRI, FcγRIII, FcγRIV), and inhibitory signaling via an associated immunoreceptor tyrosine-based inhibitory motif (ITIM) (FcγRII). FcγRI and FcγRIV are considered to be high affinity, binding monomeric and immune complexed (IC) IgG, and FcγRII and FcγRIII are considered low affinity. Their affinity for IgG was measured using surface plasmon resonance (KA) and ability to bind IC determined by flow cytometry. Mouse IgG3 is a not a common subclass used in experimental models of cancer and therefore is not included in this figure. These receptors are broadly expressed across immune cells in both the periphery and tissue. For the Affinity for therapeutic IgG, symbols '+/-', indicate the level of binding to IC, '-' = no binding and '+' = binding (++++ > +++ > ++ > +). For the Effector cell expression, Symbols '+/-', indicate the level of expression on the different immune cell subsets, '+' = consistent expression (++++ > +++ > ++ > +). ADCC, antibody-dependent cellular cytotoxicity; ADCP, antibody-dependent cellular phagocytosis; class, classical; MO, monocytes; ND = not determined; NK, natural killer; non-class, non-classical; Teff, T effector cells; TRM, tissue-resident macrophages. References for: affinity/Ka (Baudino, L., et al., Impact of a three amino acid deletion in the CH2 domain of murine IgG1 on Fc-associated effector functions. J Immunol, 2008. 181(6): p. 4107-12.) ; Immune complex binding for mouse (Wang, Y., et al., Specificity of mouse and human Fcγ receptors and their polymorphic variants for IgG subclasses of different species. Eur J Immunol, 2022. 52(5): p. 753-759.) ; FcγR expression in the periphery (Kerntke, C., F. Nimmerjahn, and M. Biburger, There Is (Scientific) Strength in Numbers: A Comprehensive Quantitation of Fc Gamma Receptor Numbers on Human and Murine Peripheral Blood Leukocytes. Front Immunol, 2020. 11: p. 118.) ; FcγR expression in tissues (Vorsatz, C., et al., There Is Strength in Numbers: Quantitation of Fc Gamma Receptors on Murine Tissue-Resident Macrophages. Int J Mol Sci, 2021. 22(22))