

Novel Strategy for Preparation of Heterodimer Detection ELISA Kits

In the body, there are so many crucial biological macro-molecules which exist in the form of heterodimers. Calprotectin (also known as calprotectin, S100A8/A9 complex, MRP8/14) and IL-35 (interleukin-35) are two typical heterodimer (Fig.1-2).

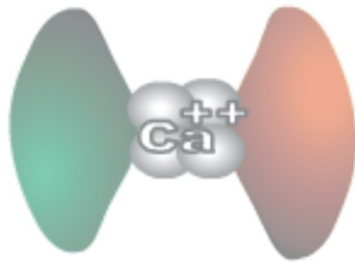


Fig.1. Structure of calprotectin



Fig.2. Structure of interleukin-35

According to the principle of double antibody sandwich ELISA (Fig.3), combined the structural characteristics of the heterodimer, Cloud-Clone corp. generally leads two different antibodies into the ELISA system, the precoated antibody, which targets one subunit, and the detection antibody, which is against the other one. This optimized strategy will enhance the specificity of ELISA detection effectively.

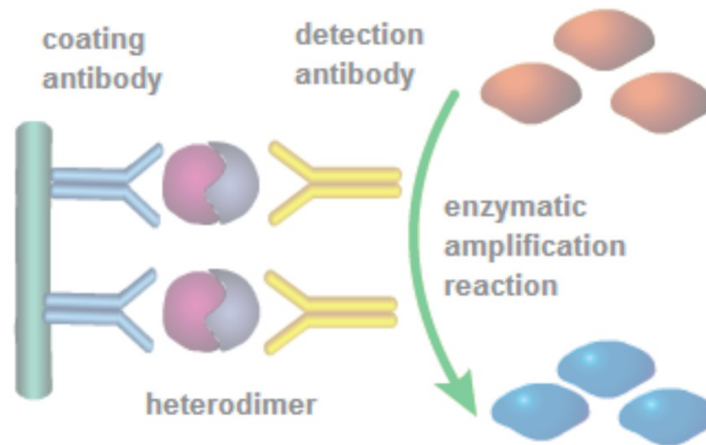


Fig.3. Schematic diagram of double antibody sandwich ELISA