

Assembled ELISA

(the answer key & explanation for this puzzle)

2. Primary antibody has recognition sequences for the antigen. Primary antibodies can come from human serum (why some scientists are trying to use “anteserum” from patients who have recovered from COVID19 either as a direct treatment or as a model for designing these types of antibodies for ELISA detection of resistance or directly for treatment)

3. Secondary antibody has recognition sequences for the stem of the primary antibody. Usually secondary antibodies are designed to generally recognize any antibodies made by a particular other species .e.g a secondary antibody from a horse could recognize any primal antibody from a mouse. Antibodies can be collected from the plasma of a living animal just like a human can donate their plasma at a blood donation center.

4. A detection method must be used to visualize the presence of a bound secondary antibody. This can be through colored molecules or fluorescent molecules and can be directly attached to the secondary antibody or activated through an enzymatic reaction

1. Test substance bound to the well of the plate, represented here as a repeating pattern of the binding region (antigen).

