

ANTIBODY
STRUCTURE TYPES &
PROPERTIES

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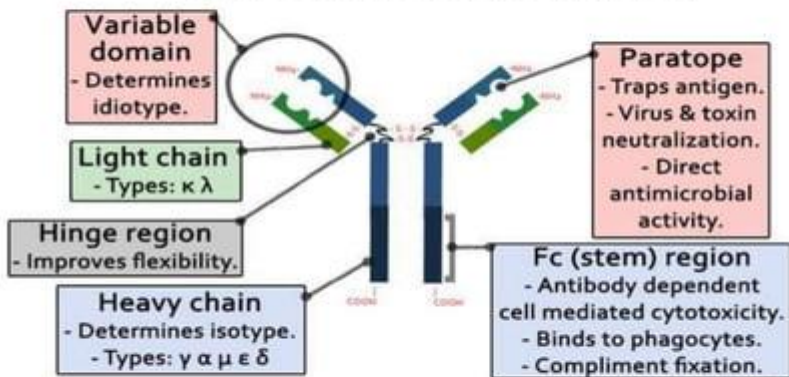
ANTIBODY

- It is a protein produced by the immune system that is capable of binding with high specificity to an antigen.
- Antibody was discovered in 1975 by GEORGE KOHLER and CESAR MILSTEIN.



STRUCTURE OF ANTIBODY

STRUCTURE OF ANTIBODY

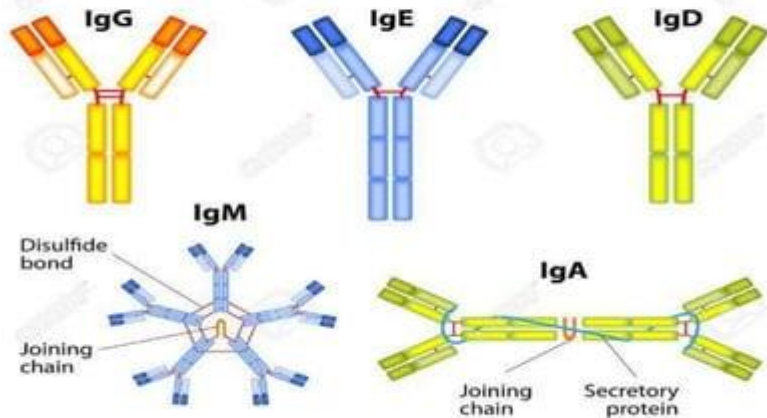



TYPES OF ANTIBIOTICS

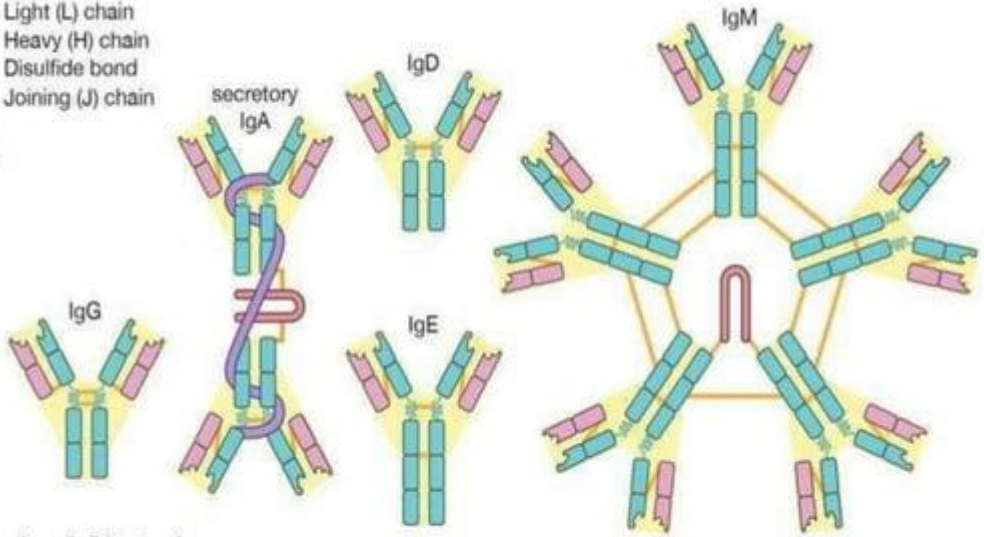
- Antibody isotypes or antibody classes, define the role of the antibody in the body.
- There are five different antibody isotypes seen in humans: IgG, IgA, IgM, IgE, IgD.

Classification of Antibody

ANTIBODY CLASSIFICATION



- Light (L) chain
- Heavy (H) chain
- Disulfide bond
-  Joining (J) chain



Properties of Antibody

- Immunoglobulins are an indispensable asset to the immune system and are now widely used in treatment strategies.
- Antibodies derived from a clone of cells originating from the same parent cell are developed and used in the treatment of diseases .
- Trastuzumab is an example of a monoclonal antibody used in the treatment regime of breast cancer.
- Antibody treatment and immune therapy are also being used in the treatment of many other wide spread diseases such as diabetes.

Thanking you