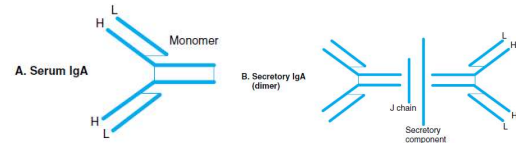


## IgA

- Monomer / Dimer
- MW: 400 kDa / 160 kDa
- Contains  $\alpha$ -chain
- Half life : 6 days
- Secretory antibodies
- J chain connects dimer
- 11S/ 7S immunoglobulin
- Prevents entry of foreign substances into the body cells
- It prevents attachment of antigens to epithelial linings.
- Released in secretions like Milk, saliva, tears, mucus.



Preview from Notesale.co.uk  
Page 4 of 5

## IgE

- Contains  $\epsilon$ -chain.
- They are in Very low serum concentration.
- MW: 190 kDa
- 8S (sedimentation coefficient)
- Half life : 2 days
- Cytophilic antibodies
- Mediate allergic reaction Asthma, anaphylaxis, hives. Serum level increases in helminthic infections
- Small amount, trigger the histamine release of basophils and mast cells.

## IgD

- MW : 180 kDa
- 7S (sedimentation coefficient)
- Monomer
- $\delta$ -chain
- May act as B cell receptor
- Half life : 2.8 days
- They are found on surface of B-cells and initiate the development of B-cells into plasma cells. They are also in low serum concentrations.