

### PROTEINS & PEPTIDES

Recombinant proteins - fastest growing class of pharmaceuticals.

ie. **recombinant human insulin**

-large , complex and unstable

### IMMUNOGLOBULINS & MABS

**IG-** glycoprotein antibodies

**Polyclonal serum IgG** -passive immunity

**mAbs**-purified antibodies that bind to single epitope on an antigen.

-from mouse hybridoma cells from transgenic mice

- to target **CANCER** cells & **AUTOIMMUNE Dx**

- act as antagonist by *binding to antigen* and or by *binding to cell surface markers* on target cells --> **cell death** by

*antibody-dependent cell mediated cytotoxicity & complement-dependent cytotoxicity*

-**umab** - human

-**ximab**- chimeric

-**zumab** - humanized

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Page 1 of 1.

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