

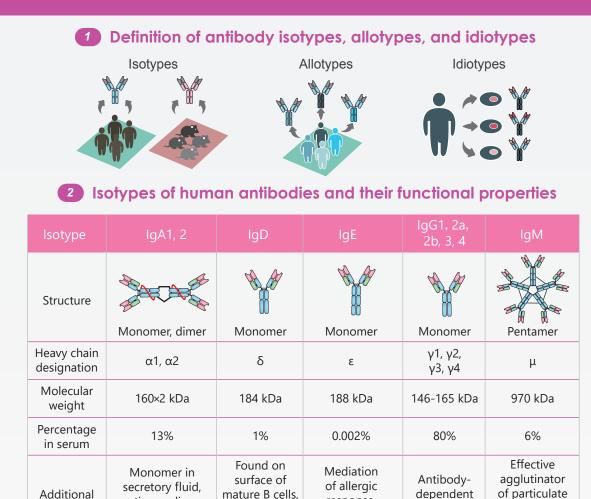
Crevative Antibodies: Types & Formats

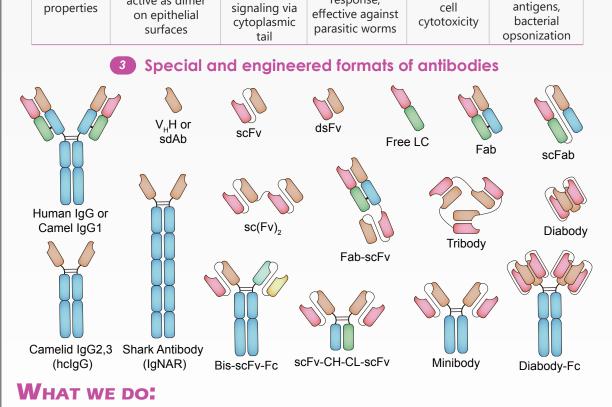
Common antigen-specific markers of Ig molecule of the same species, are called isotypes. antigen-specific markers at the constant regions between different individuals of the specie<u>s</u> called same allotypes. Beside these two types of antigenic markers, the unique antigen-specific signature of Ig molecules produced idiotypes.

In mammals, there are 5 class of heavy chain (α , δ , ϵ , γ , and μ), corresponds to 5 different antibodies (IgA, D, E, G, M) in the human body, which are distributed and differently. A same Ig class can such as IgG1,2,3,4, IgA1,2 and IgM1,2 by the slight differences of the amino acid composiposition of disulfide bonds. Their functional properties are summarized in the table.

In common antibodies, the region variable light chains (VH and VL). But antibodies consisting only of two heavy chains and lacks the two light chains were also found in camelid and shark, these antibodies are called heavy-chain antibodies (hcAb). Single-chain variable fragment (scFv) and antigen-binding fragment (Fab) widely used fragments that to generate b٧ biochemical engineering. these antibody formats, the smallest are VHH/VH camelid hcAbs or single-domain antibodies (sdAbs).

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