

Human Immunoglobulin Components

Property	F(ab') ₂	Fab'	Fc	Secretory component	J chain
H chain class / subclass (heavy chain)	N/A ¹	N/A ¹	y1,2,3,4	IgA only	IgA, IgM only
H chain MW	25 kDa	25 kDa	25 kDa	N/A ²	N/A ²
L chain MW ⁴ (light chain, κ & λ)	23 kDa	23 kDa	N/A ³	N/A ³	N/A ³
Total MW	100 kDa ⁵	50 kDa	50 kDa ⁶	70 kDa	15 kDa
Ext. Coeff. 0.1% @ 280nm	1.5	1.5	1.2	Not available	Not available

¹ Class determinants are not present on these fragments.

² Heavy chains are not present on these fragments.

³ Light chains are not present on these fragments.

⁴ Light chains are present on all immunoglobulins. In humans, κ chains are found 67% of the time, and λ chains are found 33% of the time.

⁵ 2 heavy chain Fab fragments (25 kDa each) plus 2 light chains (25 kDa each).

⁶ 2 heavy chain Fc fragments (25 kDa each).