

Mouse Immunoglobulin Properties

Property	IgG				IgA	IgM	IgD	IgE
H chain class	γ				α	μ	δ	ϵ
H chain subclass	$\gamma 1$	$\gamma 2a$	$\gamma 2b$	$\gamma 3$	None	None	None	None
% of total IgG	46	24	27	2				
Light Chain	Approximately 95% kappa (κ LC) – 5% lambda (λ LC)							
Molecular weight (kDa)	160				160 (monomer) 350-400	900	180	190
Normal Serum Concentration (mg/ml)	0.3-5.0	0.1-4.0	0.1-5	0.1-0.2	0.01-0.03	0.1-1.6	0.003-0.01	0.0001-0.001
Serum half-life (days)	8-11	3-12	2.6-3.5	4-8	0.5-1	0.5-1	<1	<1
Electrophoretic Mobility	Fast	Slow	Slow	Slow				
Carbohydrate (%)	2-3				7-11	9-12	12-15	12
Complement fixation	–	+++	+++	+/-	–	+++	n.k	n.k
Ext. Coefficient ($E_{280}^{0.1\%}$)	1.4				1.35	1.18		
Sedimentaion Coeff.	6.6				6.7	19	6.5	8

n.k., not known