Characteristics	Neutrophil	Lymphocyte	Monocyte	Eosinophil	Basophil	Plasma cell
Meaning of name	Affiliation for neutral color	Cell of lymph system	1 large nucleus	Affiliation to eosin (red) color	Affiliation to basic color	Develop from naïve B cells
Size	4 RBCs	1-2 (small)	6-7 RBCs	3-5 RB s	3-5 RBCs	2-3 RBC
Size Nucleus Chromatin patt Chromatin patt Chromatin	3-4 lobes (segmented)	Large purple nucleus	Horseshoe shaped C	Bil owed	Bilobed	Centered towards border (eccentric), perinuclear halo close to nucleus (Golgi body), purple
Chromatin patt Chromatin	ew Pa	ige ,	Lacey, ground- glass appearance (vacuoles)	Coarse	Condensed	Condense/coarse, basophilic cytoplasm
Granules	Fine, pink-purple	-	-	Coarse, orange- red	Coarse, large, dark-purple	Coarse
N:C	1:2	5:1-2:1	4:1-2:1	1:3	1:2-1:3	2:1-1:1
Life span	6-10 hours	3 days in spleen and lymph nodes 3 weeks in BM	Only a few days (6-8 days)	2-5 days	1-2 days	3-5 days
Function	Phagocytosis	T cell: cell- mediated immunity B cell: Humoral immunity, Ab production (IgG, IgM, IgA, IgE, IgD)	Phagocytosis, APC, cytokine production	IgE-mediated allergic disorders, parasitic infections	Anti- inflammatory mediator, releases IL-4 which functions in hypersensitivity reactions	Secretes Ab Functions in humoral immunity
Reference range	2-7 x10 ⁹ 40-80%	1-3 x10 ⁹ 20-40%	0.2-1 x10 ⁹ 2-10%	0.02-0.5 x10 ⁹ 1-6%	0.02-0.1 x10 ⁹ <1-2%	2-3% in BM