

**BIOMARKERS
CYNOMOLGUS MONKEY**

ANTIBODIES	MATRIX
Anti-KLH IgG/IgM (immunotox)	Serum
Total IgG, IgM	Serum
Complement	
Bb fragment	Plasma
C3a fragment (C3adesArg)	Plasma
CH50, total complement activity	Serum
C-Reactive Protein (CRP)	Serum, Plasma
SC5b-9	Serum
Cytokines	
CCL2 (monocyte chemotactic protein 1, MCP-1)	Serum
CXCL10 (INF- γ -induced protein 10, IP-10)	Serum
Interferon alpha (IFN- α)	Serum
Interferon gamma (IFN- γ)	Serum
Interleukin 2 (IL-2)	Serum
Interleukin 4 (IL-4)	Serum
Interleukin 5 (IL-5)	Serum
Interleukin 6 (IL-6)	Serum, BALF
Interleukin 6 (IL-6)	Serum, BALF
Tumor Necrosis Factor (TNF)	Serum
Damage markers	
Apolipoprotein-B (ApoB)	Plasma
Cardiac Troponin I (cTnl)	Serum
Hormones	
Estradiol (E2)	serum
Intact Parathyroid hormone (iPTH)	Serum, Plasma
Other biomarkers	
Bone-specific Alkaline Phosphatase (BAP)	Serum
Neopterin	serum
sCD25 (IL-2Ra)	Serum, Plasma

Con't.



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Functional assays	
Proteasome activity	Whole blood
pSTAT5 in T cells	PBMC
Phenotypes	
Absolute lymphocyte counts (T/B/NK panels)	Whole blood
Absolute lymphocyte counts (T-c memory/naïve)	Whole blood
Monocyte counts (classical/activated)	Whole blood
Activated T lymphocytes immunophenotyping	Activated PBMC
Dendritic cells phenotyping (mDC and pDC)	PBMC
Regulatory T cells (with intracellular Foxp3)	Whole blood, PBMC
Various surface and intracellular markers to combine:	
- Surface	
CD3, CD4, CD8, CD11c, CD14, CD16, CD19, CD20, CD25, CD43, CD44, CD45, CD45RA, CD115, CD138, CD159a, CD197, HLA-DR, TCR $\gamma\delta$, MHCII	Whole blood, Splenocytes, Lymph nodes
- Intracellular	
FoxP3, IL-4, IL-6, IL10, IFN- γ , Ki67, TGF- β , TNF	Whole blood, Splenocytes, Lymph nodes
- Other : Viability, Apoptosis	Various cells