



AVAILABLE BIOMARKER ASSAYS



Parameter	Technique	Species	Validation level
Alpha-2-microglobulin	ELISA	Rat	Q
Anti-CD71/anti-platelet/propidium iodide	Flow cytometry	Rat	Q
Anti-KLH IgG	ELISA	Mouse, Rat, Dog, Minipig, NHP	Q
Apoptotic, necrotic and dead cells (bone marrow)	Flow cytometry	Mouse	Q
B (activated and mature) (whole blood)	Flow cytometry	Dog	Q
B cells (lymph nodes)	Flow cytometry	NHP	Q
B cells, monocytes + MHC II (whole blood and spleen)	Flow cytometry	NHP	Q
B cells, monocytes + MHC II (whole blood)	Flow cytometry	NHP	Q
B lymphocyte subsets: naïve mature, mature class-switched and immature B cells (whole blood)	Flow cytometry	Rat	Q
B, T + activation marker (whole blood)	Flow cytometry	Dog	V
BrdU labeling	IHC	Mouse, Minipig	Q
Calbindin	IHC	Rat	V
Cardiac Troponin I (cTnI)	SPARCL	Rat, NHP	V
Caspase	IHC	Minipig	V
CD11b	IHC	Mouse	Q
CD11c	IHC	Mouse	Q
CD163	IHC	Rat, Dog, Minipig, NHP	Q
CD172a	IHC	Rat, Dog, Minipig, NHP	Q
CD19	IHC	NHP	V
CD20	IHC	NHP	V
CD206	IHC	Mouse	Q
CD25	IHC	Mouse	Q
CD3	IHC	Mouse, Rat, Dog, Minipig, NHP	Q
CD45R	IHC	Mouse	V
CD68	IHC	Mouse, NHP	Q

Q: qualified
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CD7	IHC	NHP	Q
CD79α	IHC	Dog	V
CD8	IHC	Mouse, NHP	Q
CDH16 (Cadherin-16)	IHC	Rat	Q
CGRP (Calcitonin Gene-Related Peptide)	IHC	Rat	Q
Chondroitin sulfate	IHC	Human	Q
Citrulline	LC-MS/MS	Minipig, NHP	Q
Complement factor Bb	ELISA	NHP	V
Complement factor C3a	ELISA	Minipig, NHP	V
Complement factor C5a	ELISA	Minipig	Q
Complement factor CH50	ELISA	NHP	Q
Complement factor sC5b-9	ELISA	NHP	Q
Cortisol	LC-MS/MS	Rat, Dog, Minipig, NHP	V
C-reactive protein (CRP)	ELISA	Rabbit, Dog, Minipig	V
C-reactive protein (CRP)	SPARCL	NHP	V
Creatine kinase MB (CKMB)	ELISA	NHP	V
CRP	ELISA	Human	V
CYP1A1	IHC	Rat	Q
CYP2B1	IHC	Rat	Q
CYP3A1	IHC	Rat	Q
CYP4A1	IHC	Rat	Q
Cytokeratin 10	IHC	Human	Q
Dermatane sulfate	IHC	Human	Q
EGF	ELISA	Rat	Q
eNOS (endothelial nitric oxide synthase) = NOS 3	IHC	Rat	Q
Erythroid cells (S phase and proliferation markers) (bone marrow)	Flow cytometry	Mouse	Q
Estradiol	LC-MS/MS	Mouse	Q

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F4/80	IHC	Mouse	Q
Facteur VIII (Von Willebrands factor)	IHC	Rat, Human	V
Fibrilline	IHC	Human	Q
Fibrinogen	Coagulation analyser	Mouse, Rat, Rabbit, Dog, Minipig, NHP	V
FSH (follicle-stimulating hormone)	IHC	Rat	Q
GFAP (anti-glial fibrillary acid protein)	IHC	Mouse, Rat, Minipig, NHP, Human	V
GH (growth hormone)	IHC	Rat	Q
GM-CSF, IFN- γ , IL-2, IL-6, IL-7, IL-8, IL-10, IL-15, IL-18, IP-10, KC, MCP-1, TNF α	Multiplex assay	Dog	Q
Haptoglobin	ELISA	Rat, Dog, Minipig, NHP	V
h-CLAT on THP-1 cell line	Flow cytometry	Human	Q
Histamine	ELISA	Minipig	Q
HMB45	IHC	Human	Q
HO-1 (heme oxygenase 1)	IHC	Human	Q
IFN γ	ELISA	NHP	Q
IFN γ , IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-8, MCP1, MIP1 α , MIP1 β , TNF α	Multiplex assay	NHP	Q
IgG/IgM/IgA	IHC	NHP	Q
IL-17A	CBA Flow	NHP	Q
IL-18	ELISA	Mouse	V
IL-1 β	ELISA	Human	Q
IL-1 β	ELISA	NHP	Q
IL-1 α	ELISA	Human	V
IL-1 β , IL-2, IL-4, IL-6, IFN γ , TNF α , MCP-1, MIP-1 α	Multiplex assay	Mouse	Q
IL-1 β , IL-6, TNF- α	CBA Flow	NHP	Q
IL-2, IL-4, IL-5, IL-6, TNF- α , IFN- δ	CBA Flow	NHP	Q
IL-6	ELISA	NHP	Q
IL-6, IL-10, MCP-1, IFN- δ , TNF- α , IL-12p70	CBA Flow	Mouse	Q
IL-6, MCP-1	Multiplex assay	Mouse	Q
Insulin	ELISA	Rat	Q
Involucrine	IHC	Human	Q

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IP-10	ELISA	NHP	Q
Ki-67	IHC	Mouse, Hamster, Rat, Minipig, NHP, Human	V
KU-80	IHC	Human	Q
Laminin	IHC	Hamster	Q
LH	IHC	Rat	Q
Loricrine	IHC	Human	Q
Ly6C	IHC	Mouse	Q
Ly6G	IHC	Mouse	Q
Lymphocyte subset: Th cells	Flow cytometry	Dog	V
Lymphocyte subsets: T, B (lymph nodes)	Flow cytometry	Mouse	Q
Lymphocyte subsets: T, B and NK cells	Flow cytometry	Rat	V
Lymphocyte subsets: T, B, NK	Flow cytometry	NHP	V
Lymphocyte subsets: T, Tc, Th cells, B, NK, CD8+ NK	Flow cytometry	NHP	Q
Lymphocyte subsets: T, Tc and Th cells	Flow cytometry	Rat	V
Lymphocyte subsets: T, Tc and Th cells, B, NK	Flow cytometry	Rat	V
Lymphocyte subsets: T, Tc, Th	Flow cytometry	NHP	V
Lymphocyte subsets: T, Tc, Th, B, NK	Flow cytometry	NHP	V
Lymphocyte subsets: T, Th, Tc, B (with or without CD45)	Flow cytometry	Dog	V
Lymphocyte subsets: Th and Tc, B, NK, NKT (whole blood)	Flow cytometry	Rat	V
Melan-A	IHC	Human	Q
MHC II (major histocompatibility complex)	IHC	Mouse, Rat, Dog, Minipig, NHP	Q
Micronucleus	Flow cytometry	Rat	Q
Micronucleus assay on reticulocytes (whole blood)	Flow cytometry	Rat	V

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MMP23 (matrix metalloproteinase 23)	IHC	Rat	Q
MUSST on U937 cell line	Flow cytometry	Human	V
Naïve, central memory and effector memory Tc and Th cells	Flow cytometry	NHP	Q
Neopterin	ELISA	NHP	Q
Nephrotoxicity biomarkers : β -2 microglobulin, cystatin C, lipocalin / NGAL	Multiplex assay	Rat	Q
Nephrotoxicity biomarkers: calbindin, clusterin, GSTa, KIM-1, osteopontin, VEGF, TIMP-1	Multiplex assay	Rat	Q
NGF (nerve growth factor)	IHC	Human	Q
P53	IHC	Human	Q
PCNA (proliferating cell nuclear antigen)	IHC	Rat	Q
Perlecan	IHC	Human	Q
Phagocytosis (E.coli FITC+: cells phagocytosing E.coli) (whole blood)	Flow cytometry	NHP	V
Phospho Tie 2	IHC	Mouse	Q
PN III	IHC	Human	Q
Progesterone	LC-MS/MS	Minipig	V
Prolactin	ELISA	Rat, Mouse	Q
PSMA (prostate specific membrane antigen)	IHC	Human	Q
PTH (parathormone)		Rat, Dog	V
Renin	ELISA	Dog	V
S100	IHC	Human	Q
SOD (superoxide dismutase)	IHC	Human	Q
T , monocytes \pm MHC II, B \pm MHC II (whole blood and spleen)	Flow cytometry	Mouse	Q
T cell panel: T ,Th and Tc, Tregs, NK, activated Tc and NK (whole blood, spleen, thymus)	Flow cytometry	NHP	V

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Parameter	Technique	Species	Validation level
T cell panel: T, Th and Tc, Tregs, NK, activated Tc cells and NK cells (whole blood, spleen, thymus)	Flow cytometry	Rat	V
T cell subsets : Th and Tc, incl cell cycle markers (thymus)	Flow cytometry	Rat	Q
T cell subsets + activation marker	Flow cytometry	NHP	V
T cell subsets: Th and Tc (whole blood)	Flow cytometry	Dog	V
T cell subsets: Th and Tc (whole blood, spleen, lymph nodes)	Flow cytometry	Mouse	Q
T cells, TCR $\gamma\delta$ T cells, Th, Tc, NK cells (lymph nodes)	Flow cytometry	NHP	Q
T, Tc, Th, B	Flow cytometry	Minipig	Q
T3	LC-MS/MS	Rat	V
T4	LC-MS/MS	Rat	V
Testosterone	LC-MS/MS	Rat	V
TGF β 1	CBA Flow	NHP	Q
Th cells \pm phospho STAT5 (whole blood)	Flow cytometry	NHP	Q
Thyrosinase	IHC	Human	Q
Thyrp1	IHC	Human	Q
TNF α	ELISA	NHP, Human	Q
Total IgE	ELISA	Rat	Q
Total IgG	ELISA	Rat, Rabbit, NHP	V
Total IgM	ELISA	Rat, Rabbit, NHP	V
TSH	ELISA	Rat	V
TUNEL (terminal deoxynucleotidyl transferase)	IHC	Rat, Rabbit, Minipig	V
Tyrosine hydroxylase 1	IHC	NHP	V
UIBC	Chemistry analyser	Rat, Dog	V
VACHT (vesicular acetylcholine transporter)	IHC	Rat	Q
Von Willebrand factor	IHC	Mouse, Rat, NHP, Human	V

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