



Human Immune Cell Products and Services

HIGH VIABILITY AND PURITY CELLS

PICOIMMUNE & IMMUNE CELLS

Founded in 2014 and based in New Jersey, PicoImmune, a division of **Axela Biosciences**, specializes in providing advanced research services in immunology, oncology, and cell biology. We are committed to accelerating pre-clinical drug discovery through innovative translational assays and disease-relevant cellular models. Our solutions cater to the academic and biopharma communities, supporting efforts to expedite the discovery of life-saving therapeutics. PicoImmune offers

high-quality primary immune cells, functional immune cell assays, and flow cytometric analysis.

Immune cells are critical for host defense against a variety of invading pathogens among other functions. Our purified cells are widely utilized in a number of immune functional assays which are often a critical part of assessing immunomodulatory activity and potential immunotoxicity of a therapeutic on both innate and adaptive immune systems.

IMMUNE CELL PRODUCTS

PicoImmune is a dependable source of primary human immune cells. Cells are isolated directly from healthy donors and maintained under stringent QC measures to guarantee cell purity and viability. Our selection includes a diverse range of immune cell types, allowing customers to investigate the immune system and its response to various stimuli, as well as to assess the efficacy and toxicity of drug candidates. Our inventory of highly purified primary immune cells encompasses 200+ unique donor lots, each of which has been extensively characterized with the following biological and demographic data:

- *Age, gender, ethnicity, height, and weight*
- *Cell count, viability, and function*
- *Purity and cellular characterization by flow cytometric analysis*
- *Availability of matching plasma*
- *ADCC testing results for selected lots*
- *High-resolution HLA-typing results (if applicable)*
- *FcyRIII genotype characterization (if applicable)*
- *Ready-to-use cells with guaranteed concentration or counts*
- *Ethically sourced from world renowned blood institutions.*
- *Institutional Review Board (IRB)-approved consent forms and protocols.*
- *Donors screened for HIV-1, HIV-2, hepatitis B, hepatitis C, human T-lymphotropic virus, syphilis, Chagas, West Nile virus and others.*



CELL ISOLATION SERVICES

- Rigorous QC Testing: ensure reproducible results and eliminate variability
- Clients can specify preferred isolation method (positive/negative selection)
- Well-validated reagents for cell isolation, purity and viability characterization
- State-of-art platforms: autoMACS



- Separators, Beckman Coulter CytoFLEX flow cytometers
- 20+ years of experience: cell isolation enrichment/differentiation expertise to deliver high-quality PBMCs and other immune cell subsets
 - Additional characterization available, including HLA typing
 - Variety of animal cell types as well as cell lots from normal human and disease state donors available upon request

APPLICATIONS

The isolated cell populations are ideal for researchers looking to perform:

- Flow cytometric analysis
- Functional cell-based assays
- Gene expression analysis
- Discovery of immunotherapeutic agents
- Study in vaccines, allergy, etc

LIST OF PRIMARY HUMAN IMMUNE CELLS

Cell Type	Product (Available as Fresh and Cryopreserved)	Catalog #	Isolation Method
PBMC	Human Normal PBMC	A-PI-010	Density Gradient Centrifugation
T Cell	Human Normal PB CD3+ Pan T Cells	A-PI-015	Negative Selection
	Human Normal PB CD3+ Pan T Cells	A-PI-020	Positive Selection
	Human Normal PB CD3+ $\gamma\delta$ T Cells	A-PI-025	Negative Selection
	Human Normal PB CD4+ T Helper Cells	A-PI-030	Negative Selection
	Human Normal PB CD4+ T Helper Cells	A-PI-035	Positive Selection
B Cell	Human Normal PB CD27- Naïve B Cells	A-PI-095	Negative Selection
	Human Normal PB CD27+ Memory B Cells	A-PI-100	Positive Selection
	Human Normal PB CD19+ B Cells	A-PI-105	Negative Selection
	Human Normal PB CD19+ B Cells	A-PI-110	Positive Selection
NK Cell	Human Normal PB CD56+ NK Cells	A-PI-115	Negative Selection
	Human Normal PB CD56+ NK Cells	A-PI-120	Positive Selection
Monocyte	Human Normal PB Pan Monocytes (CD14+, CD16+, CD14+, CD16+)	A-PI-125	Negative Selection
	Human Normal PB CD14- CD16+ Monocytes	A-PI-130	Positive Selection
	Human Normal PB CD14+ CD16- Monocytes	A-PI-135	Negative Selection
	Human Normal PB CD14+ Monocytes	A-PI-140	Positive Selection
Dendritic Cell	Human Immature Dendritic Cells	A-PI-145	Monocyte-Derived
	Human Mature Dendritic Cells	A-PI-150	Monocyte-Derived
	Human Normal PB Plasmacytoid Dendritic Cells	A-PI-155	Positive Selection
	Human Normal PB Myeloid Dendritic Cells	A-PI-160	Negative Selection
Macrophage	Human M1 Macrophages	A-PI-165	Monocyte-Derived
	Human M2a Macrophages	A-PI-170	Monocyte-Derived
	Human M0 Macrophages, mixed	A-PI-175	Monocyte-Derived
Neutrophil	Human Normal PB CD66b+ CD16+ Neutrophils	A-PI-180	Monocyte-Derived
Mast Cell	Human Mast Cells (growing)	A-PI-185	CD34+ PB Stem Cell-Derived
	Human Mast Cells (cell pellets)	A-PI-190	CD34+ PB Stem Cell-Derived
Stem Cell	Human Normal PB CD34+ Hematopoietic Stem/Progenitor Cells	A-PI-195	Positive Selection