

Blood Disorders



Research in Blood Disorders: Current Tools for Your Investigational Progress

As cancer is the leading cause of death worldwide, there are greater than 200 forms of cancer. According to the World Health Organization, cancer accounted for 7.9 million deaths worldwide in 2007. The direct cost of cancer care in the United States in 2006 alone was 104.1 billion dollars. Presently, there are thousands of scientists, researchers and physicians worldwide investigating methods to prevent and cure cancer.

DV Biologics is a global supplier of human biological tools to academic institutions and pharmaceutical companies engaging in cell and drug based discovery and development. Our mission is to provide biological tools needed to advance the innovation of technology that will ultimately be used to treat or prevent many different human degenerative disorders and diseases. DV Biologics offers a diverse range of novel human biological tools and services that can be used to study various human pathological conditions in addition to an expanded product portfolio of unique cell types and tissue-derived products.

All of our products are of the highest quality and most effective biological tools for research. DV Biologics currently offers an extensive array of tools which enables researchers to study the underlying mechanisms and pathology of various cancers. We carry primary cells, paraffin and frozen embedded blocks, and molecular derivatives such as RNA, cDNA and cell lysates from various cancer specimens. Figure 1 shows hematoxylin and eosin stained thin sections of formalin fixed paraffin embedded (FFPE) bone marrow trephine biopsies from a patient diagnosed with acute myeloid leukemia (AML), and from a patient diagnosed with multiple myeloma (MM). Figure 2 shows thin sections immunostained to detect CD34(+) cell proliferation and myeloid-positive cells from formalin fixed paraffin embedded (FFPE) bone marrow trephine biopsies of a patient diagnosed with AML. Table 1 lists representative products that DV Biologics offers in the research field of blood disorders. Please refer to our catalog for a more comprehensive list as well as units of measure (U/M). If you don't see the products you are looking for, please inquire and we'll do our best to obtain the items that your research requires. Whether your investigation of cancer is in targeted cancer therapy, immunotherapy, or gene therapy, DV Biologics provides the tools that may be tailored to your investigational needs. We excel at offering matching frozen bone marrow cells and/or mononuclear cells with various tissue and molecular biology products. In addition, DV Biologics can source any of your cancer research needs in hematology.

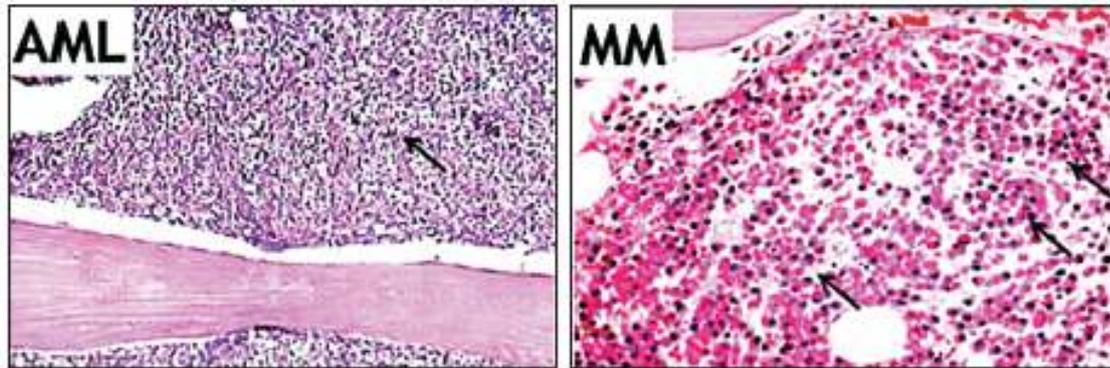


Figure 1. Formalin fixed paraffin embedded (FFPE) bone marrow trephine biopsy: From a patient diagnosed with acute myeloid leukemia (**AH001-PS-AML**), with arrows depicting hypertrophic cellular zones of a stained section; and from a patient diagnosed with multiple myeloma (**AH001-PS-MM**), with arrows depicting extensive infiltration of plasma cells with neoplas, macronucleosis, hyperchromatism, and occasional binucleation.

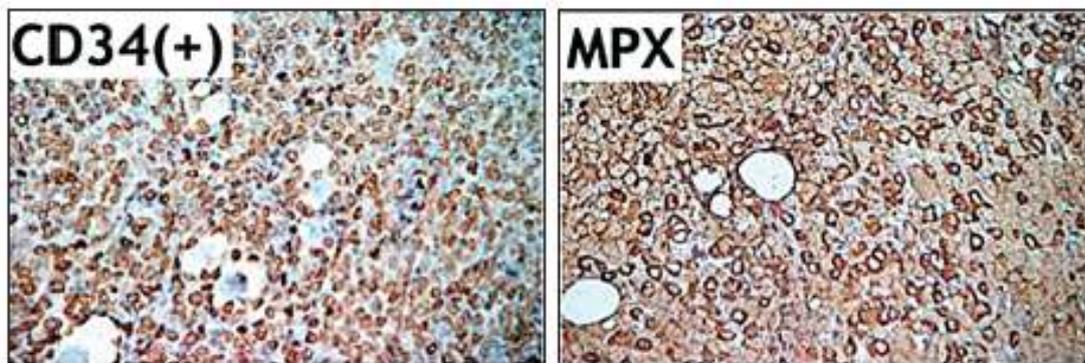


Figure 2. Immunohistochemistry of a bone marrow biopsy from a patient diagnosed with AML. Proliferation of CD34(+) cells are depicted in an immunostained section. Myeloid positive cells are detected with myeloperoxidase (MPX) immunostaining

PRODUCT	CATALOG #
ACUTE MYELOID LEUKEMIA (AML)	
Human Whole Bone Marrow, (AML)	PB-AH001-F-AML
Human Bone Marrow, Mononuclear Cells, (AML)	PB-AH002-F-AML
Human Bone Marrow, Plasma, (AML)	PB-AH011-FL-AML
Human Bone Marrow Trephine Biopsy-FFPE, (AML)	PB-AH001-PS-AML
ACUTE LYMPHOBLASTIC LEUKEMIA (ALL)	
Human Whole Bone Marrow, (ALL)	PB-AH001-F-ALL
Human Bone Marrow, Mononuclear Cells, (ALL)	PB-AH002-F-ALL
Human Bone Marrow, Plasma, (ALL)	PB-AH011-FL-ALL
Human Bone Marrow Trephine Biopsy-FFPE, (ALL)	PB-AH001-PS-ALL
CHRONIC MYELOID LEUKEMIA, PHILADELPHIA POSITIVE (CML+)	
Human Whole Bone Marrow, (CML+)	PB-AH001-F-CML+
Human Bone Marrow Mononuclear Cells, (CML+)	PB-AH002-F-CML+
Human Bone Marrow Plasma, (CML+)	PB-AH011-FL-CML+
Human Bone Marrow Trephine Biopsy-FFPE, (CML+)	PB-AH001-PS-CML+
CHRONIC MYELOID LEUKEMIA, PHILADELPHIA NEGATIVE (CML-)	
Human Whole Bone Marrow, (CML-)	PB-AH001-F-CML-
Human Bone Marrow Mononuclear Cells, (CML-)	PB-AH002-F-CML-
Human Bone Marrow Plasma, (CML-)	PB-AH011-FL-CML-
Human Bone Marrow Trephine Biopsy-FFPE, (CML-)	PB-AH001-PS-CML-
MULTIPLE MYELOMA (MM)	
Human Whole Bone Marrow, (MM)	PB-AH001-F-MM
Human Bone Marrow Mononuclear Cells, (MM)	PB-AH002-F-MM
Human Bone Marrow Plasma, (MM)	PB-AH011-FL-MM
Human Bone Marrow Trephine Biopsy-FFPE, (MM)	PB-AH001-PS-MM
MYELODYSPLASTIC SYNDROME (MDS)	
Human Whole Bone Marrow, (MDS)	PB-AH001-F-MDS
Human Bone Marrow Mononuclear Cells, (MDS)	PB-AH002-F-MDS
Human Bone Marrow Plasma, (MDS)	PB-AH011-FL-MDS
Human Bone Marrow Trephine Biopsy-FFPE, (MDS)	PB-AH001-PS-MDS
LYMPHOPROLIFERATIVE SYNDROME (LPS)	
Human Whole Bone Marrow, (LPS)	PB-AH001-F-LPS
Human Bone Marrow Mononuclear Cells, (LPS)	PB-AH002-F-LPS
Human Bone Marrow Plasma, (LPS)	PB-AH011-FL-LPS
Human Bone Marrow Trephine Biopsy-FFPE, (LPS)	PB-AH001-PS-LPS
PLASMACYTOMA (PC)	
Human Whole Bone Marrow, (PC)	PB-AH001-F-PC
Human Bone Marrow Mononuclear Cells, (PC)	PB-AH002-F-PC
Human Bone Marrow Plasma, (PC)	PB-AH011-FL-PC
Human Bone Marrow Trephine Biopsy-FFPE, (PC)	PB-AH001-PS-PC

Tab.:1: Tissue And Cellular Products used in Blood Disorders