

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com

OriGene Technologies GmbH

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info-de@origene.com

AM32838PU-T Monoclonal Antibody to Granulocyte - Purified

Quantity:	20 µg	
Concentration:	0.2 mg/ml	
Background:	alocytes are nucleated white blood cells that have been classified according to taining behavior of their cytoplasmic granules as neutrophils, eosinophils, or phils. They are derived from the myeloid precursor series in the bone marrow and a life span of only a few hours in peripheral blood. They are part of the innate ane system and have somewhat nonspecific, broad-based activity. Eosinophils ally comprises about 3%, basophils comprise about 0.5% and neutrophils orise about 60-80% of circulating WBCs. Eosinophils have large eosinophilic alasmic granules and are prominent in parasitic infections and allergic reactions. phils have large basophilic granules that obscure the nucleus and are involved be I hypersensitivity reactions. Neutrophils have a multilobate nucleus (for this on they are also called polymorphonuclear leukocytes) and fine cytoplasmic ales. They participate in the nonspecific acute inflammatory response to injury. are particularly active against extracellularly multiplying infectious agents, oly bacteria, but are also involved in repair and immune responses. recently, immunological markers for myeloid cells have been lacking, especially which identify different levels of cellular differentiation. The BM series provides w panel of monoclonal antibodies which stain early precursor and mature forms man myeloid cells. This panel of monoclonal antibodies reacts with antigenic minants present in normal myeloid cells and leukemia's of similar derivation.	
Host / Isotype:	Mouse / IgG1	
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N	
Clone:	BM-2	
Immunogen:	Nuclei from pokeweed mitogen stimulated Human peripheral blood lymphocytes.	
Format:	 State: Liquid purified IgG fraction from Bioreactor Concentrate Purification: Protein A/G Chromatography Buffer System: 10mM PBS Preservatives: 0.05% Sodium Azide Stabilizers: 0.05% BSA 	
Applications:	 ELISA: Use Antibody without BSA for Coating. Flow Cytometry: 0.5-1 μg/10⁶ cells. Immunofluorescence: 1-2 μg/ml. Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections: 0.5-1 μg/ml for 30 minutes at RT. No special pretreatment is required for staining of formalin/paraffin tissues. <i>Recommended Positive Control:</i> Tonsil or lymph node. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. 	

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

	AM32838PU-T: Monoclonal Antibody to Granulocyte - Purified This antibody recognizes an unidentified antigen in the cytoplasm of mature Granulocytes. It shows no reactivity with any other cell type in Human tissues. Markers of myeloid cells are useful in the identification of different levels of cellular differentiation. Granulocyte-specific BM-1 and BM-2 (CatNo AM32838PU) antibodies react with early precursor and mature forms of Human myeloid cells. The Granulocyte BM-2 antibody (CatNo AM32838PU) is useful for the detection of myeloid leukemias and granulocytic sarcomas. It can be used as a granulocyte marker in normal tissues or inflammatory processes. <i>Cellular Localization:</i> Cytoplasmic.	
Specificity:		
Species Reactivity:	Tested: Human and Macaque Monkey.	
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! Shelf life: one year from despatch.	
General Readings:	 Müller KM, Jaunin F, Masouyé I, Piguet PF, Saurat JH, Hauser C. Involvement of granulocytes and the adhesion receptors intercellular adhesion molecule-1 and lymphocyte function-associated antigen-1 in tissue inflammation induced by Th2-type helper cells. J Invest Dermatol. 1995 Mar;104(3):350-4. PubMed PMID: 7861000. Tinchon C, Auner HW, Beham-Schmid C, Aberle SW, Sill H, Linkesch W. Symptomatic Epstein-Barr virus reactivation in a patient with acute myeloid leukaemia and treatment with the monoclonal anti-CD20 antibody rituximab. Eur J Haematol. 2002 Jul;69(1):50-3. PubMed PMID: 12270062. de Swart RL, Ludlow M, de Witte L, Yanagi Y, van Amerongen G, McQuaid S, et al. Predominant infection of CD150+ lymphocytes and dendritic cells during measles virus infection of macaques. PLoS Pathog. 2007 Nov;3(11):e178. PubMed PMID: 18020706. 	
Pictures:	Formalin-Fixed, Paraffin-Embedded Human tonsil stained with Granulocyte Antibody CatNo AM32838PU (Clone BM-2) using peroxidase-conjugate and DAB chromogen. Note specific cytoplasmic staining.	

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.