

## 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

## AM32838PU-S OriGene EU

Acris Antibodies GmbH Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0

Fax: +49-5221-34606-11

info@acris-antibodies.com

## Monoclonal Antibody to Granulocyte - Purified

| Catalog No.:                     | AM32838PU-S   |
|----------------------------------|---|
| Quantity:                        | 0.1 mg  |
| Concentration:                   | 0.2 mg/ml   |
| Background:                      | Granulocytes are nucleated white blood cells that have been classified according to the staining behavior of their cytoplasmic granules as neutrophils, eosinophils, or basophils. They are derived from the myeloid precursor series in the bone marrow and have a life span of only a few hours in peripheral blood. They are part of the innate immune system and have somewhat nonspecific, broad-based activity. Eosinophils normally comprises about 3%, basophils comprise about 0.5% and neutrophils comprise about 60-80% of circulating WBCs. Eosinophils have large eosinophilic cytoplasmic granules and are prominent in parasitic infections and allergic reactions. Basophils have large basophilic granules that obscure the nucleus and are involved in type I hypersensitivity reactions. Neutrophils have a multilobate nucleus (for this reason they are also called polymorphonuclear leukocytes) and fine cytoplasmic granules. They participate in the nonspecific acute inflammatory response to injury. They are particularly active against extracellularly multiplying infectious agents, notably bacteria, but are also involved in repair and immune responses. Until recently, immunological markers for myeloid cells have been lacking, especially those which identify different levels of cellular differentiation. The BM series provides a new panel of monoclonal antibodies which stain early precursor and mature forms of human myeloid cells. This panel of monoclonal antibodies reacts with antigenic determinants present in normal myeloid cells and leukemia's of similar derivation. |
| Host / Isotype:                  | Mouse / IgG1  |
| Recommended<br>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<br>Purification: Protein A/G Chromatography<br>Buffer System: 10mM PBS<br>Preservatives: 0.05% Sodium Azide<br>Stabilizers: 0.05% BSA   |
| Applications:                    | ELISA: Use Antibody without BSA for Coating.<br>Flow Cytometry: 0.5-1 μg/10 <sup>6</sup> cells.<br>Immunofluorescence: 1-2 μg/ml.<br>Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections: 0.5-1 μg/ml for 30<br>minutes at RT.<br>No special pretreatment is required for staining of formalin/paraffin tissues.  |

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.

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



MS/20140506

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



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