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

AM08110BT-N Monoclonal Antibody to B-Cells (subset) - Biotin

Alternate names: B cells, B-cell marker

Quantity: 0.5 mg

Concentration: 0.5 mg/ml

Background: B cells are lymphocytes that are produced in the bone marrow and require bone marrow stromal cells and their cytokines for maturation. During its development, each B cell becomes genetically programmed through a series of gene splicing reactions to produce an antibody molecule with a unique specificity.

Host / Isotype: Mouse / IgM

Clone: BB6-10A10

Format: **State:** Liquid purified Ig fraction.
Buffer System: PBS containing 0.09% Sodium Azide as preservative.
Label: Biotin

Applications: **Flow Cytometry:** < / = 1 µg/10e6 cells. (Ref.1-2)
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody stains the following percentages of surface immunoglobulin (sIg) positive cells in porcine lymphoid tissues: 11-15% in peripheral blood; 22-23% in mesenteric lymph nodes; 79-87% in ileal Peyer's patches (ILPP); 6-17 in spleen; and 0% in thymus (Ref.1).
While identification of the antigen(s) that are found predominantly on ILPP B cells and which are recognized by BB6-10A10 is speculative, the antibody appears to react with an immature population of B cells in the follicles of ILPPs and with a subpopulation of sIglow B cells in lymph nodes.
Species: Pig.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer.
This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Denham S, Zwart RJ, Whittall JT, Pampusch M, Corteyn AH, Bianchi AT, et al. Monoclonal antibodies putatively identifying porcine B cells. Vet Immunol Immunopathol. 1998 Jan 30;60(3-4):317-28. PubMed PMID: 9589570.
2. Pescovitz, M. Personal communication.