BMA BIOMEDICALS

# Biotinylated Monoclonal Antibody To Rat CD43

## Marker for Thymocytes and T Lymphocytes

Monoclonal antibody WEN3 reacts with rat CD43, also known as Leukosialin, Sialophorin or W3/13 antigen. CD43 is a major glycoprotein of thymocytes and T lymphocytes, a factor in lectin binding and counter-receptor for Siglec-1 (Sialoadhesin). CD43 is a single-pass type I membrane protein with a 371 amino acid backbone that presents carbohydrate ligands to selectins. T cells express two glycoforms of CD43, with molecular weights of 115 kDa and 130 kDa due to different glycosylation patterns.

***This antibody was produced in vitro from cell culture supernatant.***

## TECHNICAL AND ANALYTICAL CHARACTERISTICS

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| **Product Number:** | T-3036 (Lot 01PB1621) |
| **Clone:** | WEN3 |
| **Host species, isotype:** | Mouse IgG1 |
| **Quantity:** | 200µg |
| **Format:** | Affinity purified from cell culture supernatant, biotinylated, lyophilized, packaged under nitrogen.<br>Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.05% (v/v) Kathon™ CG as a preservative. |
| **Stability:** | Original vial: 1 year at 4° - 8°C from date of purchase. Avoid freeze-thaw cycles. |
| **Applications:** | Tested for immunohistochemistry (IHC); the antibody has been described to work in FACS.<br>**Approximate working dilution for IHC:**<br>Frozen sections: 1µg/ml (1:400)<br>Paraffin sections: 10µg/ml (1:40); pretreatment in microwave with citrate buffer for antigen retrieval is recommended<br>Optimal dilutions should be determined by the end user.<br>Suggested positive control: rat spleen.<br>Please see **www.bma.ch** for protocols and general information. |
| **Immunogen:** | rat lymphokine activated killer (LAK) cells |
| **Protein database:** | rat-P13838 |
| **Antigen, epitope:** | The antigen has been identified as rat CD43, the epitope has not been characterized. |

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| **Antigen distribution:** | **Tissue sections:** Cells in T-cell areas mostly show a weak reaction, whereas strong staining is seen in scattered splenic cells in the red pulp. |
| **Specificity:** | **Rat:** subpopulations of CD4+, CD8+ T-cells. |
| | **Other:** does not react with porcine tissue. |

**Selected references**

Høysaeter S, Jensen W, Fossum S.: Expression of CD43 epitopes on NK and T cells. Scand J Immunol. 1994 Oct;40(4):437-42.

Clark, Mary C. and Baum, Linda G.: T cells modulate glycans on CD43 and CD45 during development and activation, signal regulation, and survival. Ann N Y Acad Sci. 2012 Apr; 1253: 58–67. Published online 2012 Jan 30. doi: 10.1111/j.1749-6632.2011.06304.x (Review)

For in vitro research only. This product contains Kathon™ CG as a preservative.

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