

## Monoclonal Antibody to Macrophage Galactose Specific Lectin (MMGL) - Purified

<b>Alternate names:</b>	Connective Tissue Macrophage / Histiocyte Marker
<b>Catalog No.:</b>	BM4010
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.2 mg/ml (stock solution)
<b>Background:</b>	MMGL is a glutaraldehyde (0.05%) resistant 38kD single chain surface glycoprotein.
<b>Host / Isotype:</b>	Rat / IgG2a
<b>Recommended Isotype Controls:</b>	SM15P, SM15PX
<b>Clone:</b>	ER-MP23
<b>Immunogen:</b>	Mouse macrophage cell lines
<b>Format:</b>	<b>State:</b> Lyophilised <b>Purification:</b> Affinity purified IgG <b>Buffer System:</b> PBS, pH 7.2 with 10 mg/ml BSA as stabilizer and 0.01% Thimerosal as preservative <b>Reconstitution:</b> Restore in 0.5 ml distilled water to make stock solution.
<b>Applications:</b>	Immunohistochemistry on frozen sections (Acetone Fixation): Approximate working dilution is 1 µg/ml (1:200 of stock solution) freshly prepared. Use mouse skin for positive control. The antibody has been described to work in Flow cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	ER-MP23 detects mature macrophages in connective tissues which are situated in the vicinity of epithelia e.g. salivary glands, capsule of lymph nodes, thymus and various other organs. The antibody blocks the mouse macrophage galactose-specific lectin (MMGL). <b>Species:</b> Mouse. Other species not tested.
<b>Add. Information:</b>	<b>Staining of isolated cells:</b> The antigen is found on the surface of connective tissue macrophages and their precursor cells in bone marrow. Macrophage cell lines (J774-1.6, RAW309Cr.1, WR19M.1) corresponding to mature macrophages express high levels of the antigen. <b>Staining of tissues:</b> The antigen is abundant on mature macrophages in connective tissues as present in the skin (dermis), salivary glands, capsule of lymph nodes, thymus and various other organs. The antigen is partly coexpressed with the BM8 antigen.

ER-MP23 positive macrophages may express Ia antigens.

**Storage:**

Store the unopened vial at 2-8°C for up to one year and the stock solution in aliquots at -20°C. Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**General Readings:**

Jansen A. et al.: Immunohistochemical characterization of monocytes-macrophages and dendritic cells involved in the initiation of the insulinitis and b-cell destruction in NOD mice. Diabetes 43: 667-675 (1994).