Product datasheet MON3099

Rat anti-Mouse F4/80, clone BM8 (Monoclonal)

Clone no. BM8

MONOSAN

Product name	Rat anti-Mouse F4/80, clone BM8 (Monoclonal)
Host	Rat
Applications	IHC-fr,FC,IHC-P,WB
Species reactivity	mouse
Conjugate	-
Immunogen	Unknown or proprietery to MONOSAN and/or its suppliers
Isotype	IgG2a
Clonality	Monoclonal
Clone number	BM8
Size	1 ml
Concentration	100 ug/ ml
Format	-
Storage buffer	PBS with 0.1% BSA and 0.02% sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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Additional info

The monoclonal antibody BM8 recognises a 125 kD extracellular macrophage membrane molecule, highly restricted to mature macrophage subpopulations residing in tissue. This murine F4/80 glycoprotein contains seven-transmembrane (TM7) regions, which anchor the protein in the cell membrane, and thereby shows similarity in this region to G-protein-coupled receptors. The F4/80 molecule shares overall structural homology to other members of the epidermal growth factor (EGF)-TM7 family. The antigen is detected on tissue fixed macrophages in all organs tested so far (spleen, lymph nodes, thymus, liver, skin). It is also present on Langerhans cells in the skin and Kupffer cells in the liver. It is absent on granulocytes, lymphocytes and trombocytes. The expression of F4/80 increases upon maturation of macrophage precursors in bone marrow and blood as well as in ontogeny.</br> The monoclonal antibody BM8 is the only macrophage marker that is able to distinguish non-destructive from destructive inflammation processes in the pancreas. Furthermore it is a unique histological marker of the progression from peri-insulitis to beta-cell destruction and diabetes in a mouse diabetes model.

References

1. Malorny; U et al. Cell Tissue Res 1986; 243: 421
2. Leenen, P et al J Immunol Methods 1994, 174: 5
3. Mackler; A et al. Biol Reprod 1999; 61: 879
4. Schaller E et al. Mol Cell Biol 2002; 22: 8035
5. -