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Selected General References

Tissue macrophages: heterogeneity and functions.
 Gordon S, Plüddemann A
BMC biology (2017) 15(1): 53.

Macrophage heterogeneity in tissues: phenotypic diversity and functions.
 Gordon S, Plüddemann A, Martinez Estrada F
Immunological reviews (2014) 262(1): 36-55.

The dendritic cell lineage: ontogeny and function of dendritic cells and their subsets in the steady state and the inflamed setting.

Merad M, Sathe P, Helft J, Miller J, Mortha A
Annual review of immunology (2013) 31: 563-604.

The macrophage F4/80 receptor is required for the induction of antigen-specific efferent regulatory T cells in peripheral tolerance.

Lin HH, Faunce DE, Stacey M, Terajewicz A, Nakamura T, Zhang-Hoover J, Kerley M, Mucenski ML, Gordon S, Stein-Streilein J
The Journal of experimental medicine (2005) 201(10): 1615-25.

The EGF-TM7 family: unusual structures at the leukocyte surface.
 McKnight AJ, Gordon S
Journal of leukocyte biology (1998) 63(3): 271-80.

Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: not tested yet IP: not tested yet ICC: not tested yet IHC: 1 : 500 IHC-P/FFPE: 1 : 50 up to 1 : 100
Clone	167B3
Subtype	IgG2a (κ light chain)
Immunogen	Synthetic peptide corresponding to AA 28 to 42 from mouse F4/80 (UniProt Id: Q61549)
Epitop	Epitop: AA 28 to 42 from mouse F4/80 (UniProt Id: Q61549)
Reactivity	Reacts with: mouse (Q61549). Other species not tested yet.
Specificity	Specific for F4/80

TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

The murine macrophage cell surface glycoprotein **F4/80** is a member of the epidermal growth factor-seven transmembrane (EGF-TM7) family. It is involved in the generation of antigen-specific efferent regulatory T cells that suppress antigen-specific immunity but not required for the development and distribution of tissue macrophages.

Although F4/80 is widely used as a marker of murine macrophage populations it is not equivalently expressed across tissue-specific macrophage lineages: e.g. red pulp macrophages of the spleen and Kupffer cells of the liver are F4/80-positive, white pulp and marginal zone macrophages of the spleen are F4/80-negative and alveolar macrophages are F4/80dim.

F4/80 expression is not restricted to macrophages, but also found in murine Epidermal Langerhans Cells; dendritic cells of the skin. The human ortholog of F4/80, EGF-like module containing mucin-like hormone receptor (EMR)1, is absent on mononuclear phagocytic cells including monocytes, macrophages, and myeloid dendritic cells and seems to be highly specific for eosinophils in humans.