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10-4171: Monoclonal antibody to CD68 (Clone: ABM53F5)

Clonality :	Monoclonal
Clone Name :	ABM53F5
Application :	FACS,WB
Reactivity :	Human
Conjugate :	Unconjugated
Gene :	CD68
Gene ID :	968
Uniprot ID :	P34810
Format :	Purified
Alternative Name :	Macrosialin, Gp110
Isotype :	mouse IgG2b, kappa
Immunogen Information :	A partial length recombinant protein (a.a 80-280) of CD68 was used as the immunogen for this antibody.

Description

CD68 is a transmembrane glycoprotein which acts as a commercialized marker for human monocytes and macrophages. Its expression is thought to be regulated by a macrophage-specific promoter. However, several immunohistochemical studies have indicated that CD68 antibodies also react with other haematopoietic and non-haematopoietic cell types. It also can stain myeloid cells, dendritic cells, fibroblasts, Langerhans cells and others. In human monocytes, which produce high levels of CD68 mRNA, the gene is characterized by intramolecular ligations between the promoter and the 3' intervening region. CD68 is also used as a pan-macrophage marker for TAM (Tumor-Associated Macrophages) which always involve in carcinogenesis.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

FACS: 0.5-1 µg/10^6 cells, WB: 2-4 µg/ml

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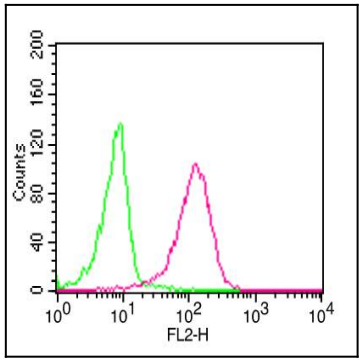


Fig.1: Cell surface Flow analysis of hCD68 in human PBMC (Monocytes) cells using 0.5 µg/ 10^6 cells. Green represents isotype control (ABEOMICS); red represents anti-hCD68 antibody (10-4171). Goat anti-mouse PE conjugated secondary antibody (ABEOMICS) was used.

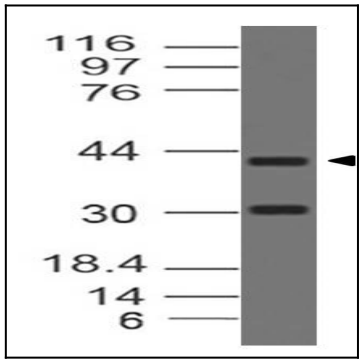


Fig.2: Western blot analysis of CD68. Anti-CD68 antibody (Clone : ABM53F5) was used at 2 µg/ml on human spleen lysate.

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