Anti-Ly6g Antibody [PSH14-95] - BSA and Azide free

HA751538

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse
Applications:	FC, IHC-P
Molecular Wt:	Predicted band size: 14 kDa
Clone number:	PSH14-95

Description: Ly6G is a GPI-anchored protein, that is also known as the myeloid differentiation antigen Gr1. The antigen is transiently expressed on monocytes in the bone marrow. The level of antigen expression in the bone marrow directly correlates with granulocyte differentiation and maturation. Ly6G is expressed predominantly on neutrophils, also in a subset of eosinophils, differentiating pre-monocytes, and plasmacytoid dendritic cells.

Immunogen: Recombinant protein within Mouse Ly6g aa 27-105.

Positive control: Mouse bone marrow, C57 mouse blood, mouse spleen tissue, mouse lung tissue.

Subcellular location: Cell membrane.

Database links: SwissProt: P35461 Mouse

Recommended Dilutions:

FC	1:1,000
IHC-P	1:2,000-1:4,000

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

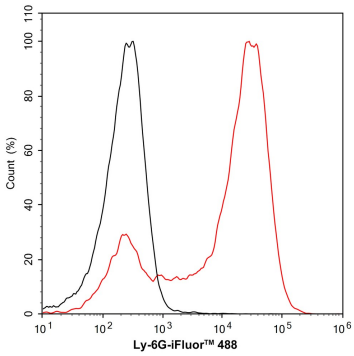

Fig1: Flow cytometric analysis of mouse bone marrow cells labeling Ly6g.

Cells were washed twice with cold PBS and resuspend. Then stained with the primary antibody (HA751538, 1/1,000) (red). After incubation of the primary antibody at +4℃ for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4℃. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

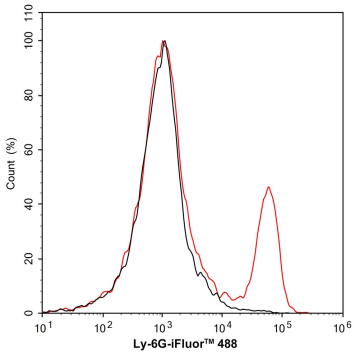

Fig2: Flow cytometric analysis of C57 mouse blood cells labeling Ly6g.

Cells were washed twice with cold PBS and resuspend. Then stained with the primary antibody (HA751538, 1/1,000) (red). After incubation of the primary antibody at +4℃ for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4℃. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

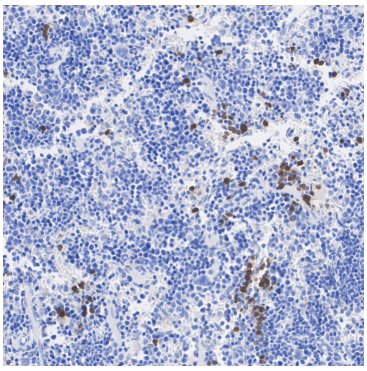

Fig3: Immunohistochemical analysis of paraffin-embedded mouse spleen tissue with Rabbit anti-Ly6g antibody (HA751538) at 1/4,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA751538) at 1/4,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

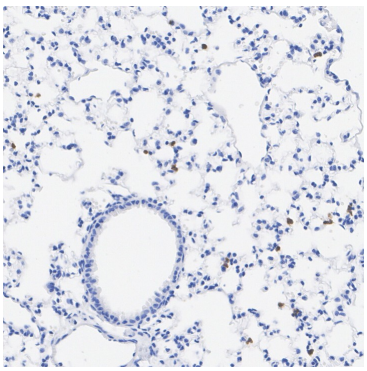

Fig4: Immunohistochemical analysis of paraffin-embedded mouse lung tissue with Rabbit anti-Ly6g antibody (HA751538) at 1/4,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA751538) at 1/4,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Ruscitti C et al. Recruited atypical Ly6G(+) macrophages license alveolar regeneration after lung injury. Sci Immunol. 2024 Aug
2. Iliakis CS et al. Never trust a single myeloid marker: Ly6G on repair-promoting lung macrophages. Sci Immunol. 2024 Aug