Anti-CD11c Antibody [PSH07-42]

HA722830

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse
Applications:	WB, IHC-P, IHC-Fr, IF-Tissue, mIHC
Molecular Wt:	Predicted band size: 129 kDa
Clone number:	PSH07-42

Description: CD11c is an integrin alpha X chain protein. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This protein combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as inactivated-C3b (iC3b) receptor 4 (CR4). The alpha X beta 2 complex seems to overlap the properties of the alpha M beta 2 integrin in the adherence of neutrophils and monocytes to stimulated endothelium cells, and in the phagocytosis of complement coated particles.

Immunogen: Recombinant protein within mouse CD11c aa 616-936 / 1,169.

Positive control: RAW264.7 cell lysate, Mouse spleen tissue lysate, Mouse colon tissue lysate, AD mouse brain tissue, mouse colon tissue, mouse spleen tissue.

Subcellular location: Membrane

Database links: SwissProt: Q9QXH4 Mouse | P20702 Human

Recommended Dilutions:

WB	1:1,000
IHC-P	1:1,000
IHC-Fr	1:500-1:1,000
IF-Tissue	1:200
mIHC	1:500

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

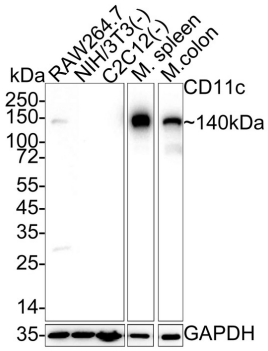

Fig1: Western blot analysis of CD11c on different lysates with Rabbit anti-CD11c antibody (HA722830) at 1/1,000 dilution.

Lane 1: RAW264.7 cell lysate (20 µg/Lane)
Lane 2:NIH/3T3 cell lysate (negative) (20 µg/Lane)
Lane 3: C2C12 cell lysate (negative) (20 µg/Lane)
Lane 4: Mouse spleen tissue lysate (30 µg/Lane)
Lane 5: Mouse colon tissue lysate (30 µg/Lane)

Predicted band size: 129 kDa
Observed band size: 140 kDa

Exposure time: Lane1-3: 3 minutes ; Lane 4-5: 25 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722830) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

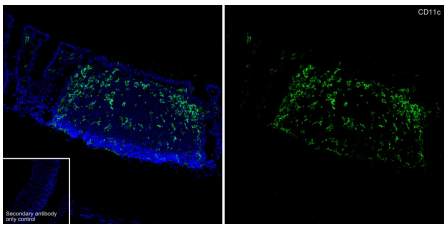

Fig2: Immunofluorescence analysis of frozen mouse colon tissue with Rabbit anti-CD11c antibody (HA722830) at 1/1,000 dilution.

The section was not undergone antigen retrieval.

The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (HA722830, green) at 1/1,000 dilution overnight at 4 ℃, washed with PBS. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with DAPI (blue).

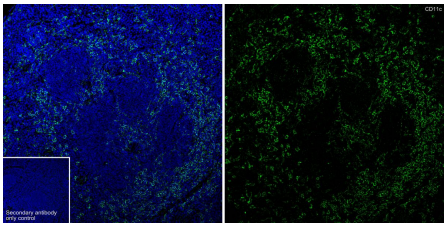

Fig3: Immunofluorescence analysis of frozen mouse spleen tissue with Rabbit anti-CD11c antibody (HA722830) at 1/500 dilution.

The section was not undergone antigen retrieval.

The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (HA722830, green) at 1/500 dilution overnight at 4 ℃, washed with PBS. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with DAPI (blue).

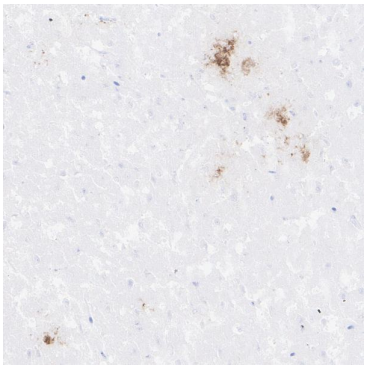

Fig4: Immunohistochemical analysis of paraffin-embedded AD mouse brain tissue with Rabbit anti-CD11c antibody (HA722830) at 1/1,000 dilution.

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 (HA722830) at 1/1,000 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.

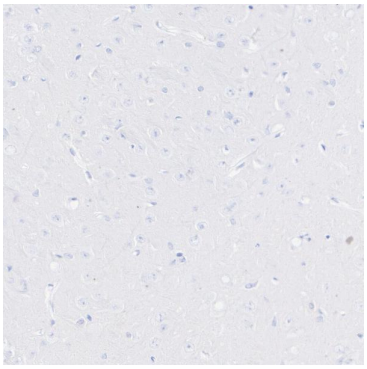

Fig5: Immunohistochemical analysis of paraffin-embedded mouse brain tissue(negative)with Rabbit anti-CD11c antibody (HA722830) at 1/1,000 dilution.

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 (HA722830) at 1/1,000 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.

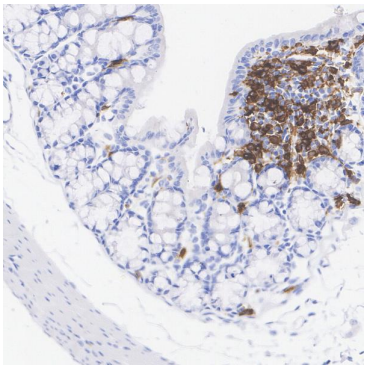

Fig6: Immunohistochemical analysis of paraffin-embedded mouse colon tissue with Rabbit anti-CD11c antibody (HA722830) at 1/1,000 dilution.

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 (HA722830) at 1/1,000 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.

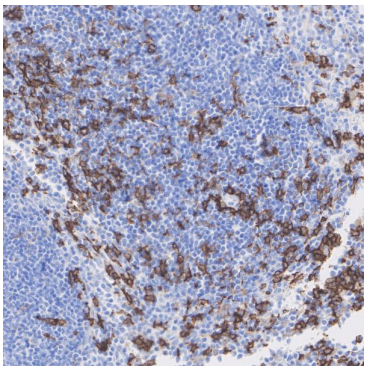

Fig7: Immunohistochemical analysis of paraffin-embedded mouse spleen tissue with Rabbit anti-CD11c antibody (HA722830) at 1/1,000 dilution.

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 (HA722830) at 1/1,000 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. Helft J, Böttcher J, Chakravarty P, Zelenay S, Huotari J, Schraml BU, Goubau D, Reis e Sousa C. GM-CSF Mouse Bone Marrow Cultures Comprise a Heterogeneous Population of CD11c(+)MHCII(+) Macrophages and Dendritic Cells. Immunity. 2015 Jun 16;42(6):1197-211. doi: 10.1016/j.immuni.2015.05.018. PMID: 26084029.
2. Tse BCY, Bergamin S, Steffen P, Hruby G, Pavlakis N, Clarke SJ, Evans J, Engel A, Kneebone A, Molloy MP. CD11c+ and IRF8+ cell densities in rectal cancer biopsies predict outcomes of neoadjuvant chemoradiotherapy. Oncoimmunology. 2023 Jul 20;12(1):2238506. doi: 10.1080/2162402X.2023.2238506. PMID: 37485033; PMCID: PMC10361136.