

CD68 Rabbit mAb

Catalog No.: A22329 **Recombinant** **2 Publications**

Basic Information

Observed MW

70-80 kDa/130-140 kDa

Calculated MW

37 kDa

Category

Primary antibody

Applications

WB, IHC-P, mIHC, ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC51158

Background

This gene encodes a 110-kD transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. It is a member of the lysosomal/endosomal-associated membrane glycoprotein (LAMP) family. The protein primarily localizes to lysosomes and endosomes with a smaller fraction circulating to the cell surface. It is a type I integral membrane protein with a heavily glycosylated extracellular domain and binds to tissue- and organ-specific lectins or selectins. The protein is also a member of the scavenger receptor family. Scavenger receptors typically function to clear cellular debris, promote phagocytosis, and mediate the recruitment and activation of macrophages. Alternative splicing results in multiple transcripts encoding different isoforms.

Recommended Dilutions

WB 1:1000 - 1:6000

IHC-P 1:10000 - 1:80000

mIHC 1:10000 - 1:40000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

968

Swiss Prot

P34810

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

GP110; LAMP4; SCARD1; CD68

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

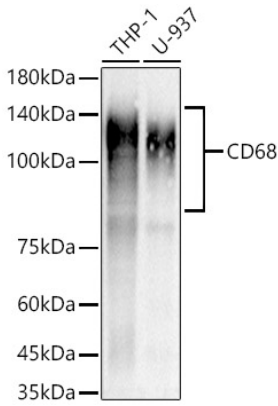
Affinity purification

Storage

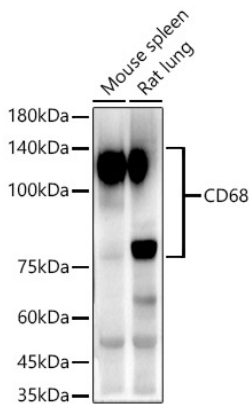
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

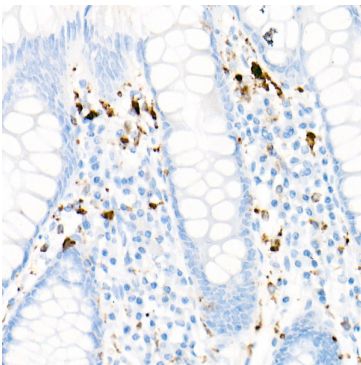
Validation Data



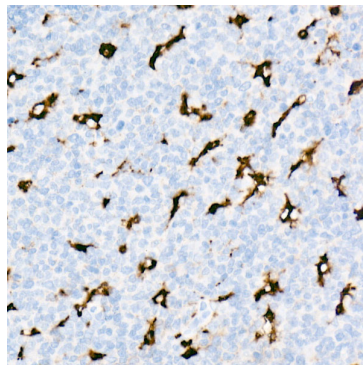
Western blot analysis of various lysates, using CD68 Rabbit mAb (A22329) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



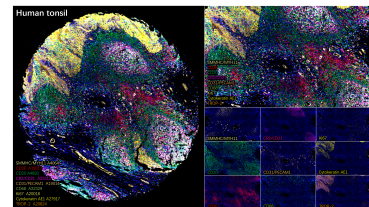
Western blot analysis of various lysates, using CD68 Rabbit mAb (A22329) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 90s.



Immunohistochemistry analysis of paraffin-embedded Human colon using CD68 Rabbit mAb (A22329) at dilution of 1:70000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



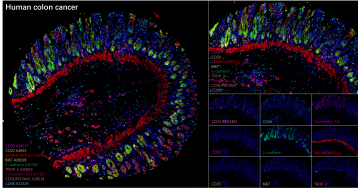
Immunohistochemistry analysis of paraffin-embedded Human tonsil using CD68 Rabbit mAb (A22329) at dilution of 1:70000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



The multiplex IHC analysis on paraffin-embedded Human tonsil tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : SMMHC/MYH11 Rabbit mAb (A4064, 1:4000) with TSA-CFP490 (Pale Yellow), and CD3E Rabbit mAb (A19017, 1:4000) with TSA-CFP645 (Red), and CD20 Rabbit mAb (A4893, 1:2000) with TSA-CFP555 (Green), and CR2/CD21 Rabbit mAb (A23512, 1:2000) with TSA-CFP645 (Magenta), and CD31/PECAM1 Rabbit mAb (A19014, 1:200) with TSA-CFP645 (Beige), and CD68 Rabbit mAb (A22329, 1:20000) with TSA-CFP490 (Cyan), and [KO Validated] Ki67 Rabbit mAb (A20018, 1:500) with TSA-

Validation Data

CFP440 (Light Yellow), and Cytokeratin AE1 Rabbit mAb (A27917, 1:2000) with TSA-CFP440 (Yellow), and TROP-2 Rabbit mAb (A20824, 1:10000) with TSA-CFP440 (Orange). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.



The multiplex IHC analysis on paraffin-embedded Human colon cancer tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : SMMHC/MYH11 Rabbit mAb (A4064, 1:4000) with TSA-CFP490 (Red), and CD3E Rabbit mAb (A19017, 1:40000) with TSA-CFP645 (Magenta), and CD20 Rabbit mAb (A4893, 1:2000) with TSA-CFP555 (Pale Yellow), and E-Cadherin Rabbit mAb (A20798, 1:1000) with TSA-CFP555 (Green), and CD31/PECAM1 Rabbit mAb (A19014, 1:200) with TSA-CFP645 (Light Coral), and CD68 Rabbit mAb (A22329, 1:20000) with TSA-CFP490 (Cyan), and [KO Validated] Ki67 Rabbit mAb (A20018, 1:500) with TSA-CFP440 (Light Yellow), and Cytokeratin AE1 Rabbit mAb (A27917, 1:2000) with TSA-CFP440 (Magenta), and TROP-2 Rabbit mAb (A20824, 1:10000) with TSA-CFP440 (Magenta). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.