CD68 Mouse Monoclonal Antibody

Catalog No: #38005

Package Size: #38005-1 50ul #38005-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

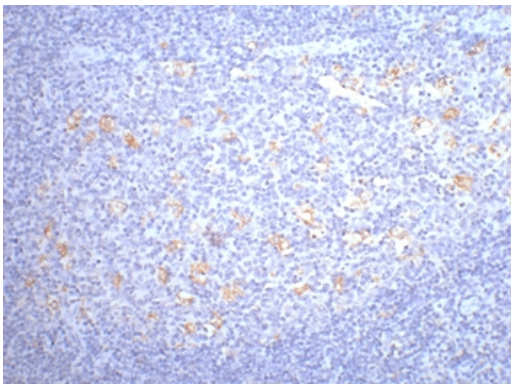
Product Name	CD68 Mouse Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	6F3
Purification	Affinity purification using immunogen.
Applications	IHC,IF
Species Reactivity	Hu Ms Rt
Specificity	The CD68 antibody detects endogenous CD68 proteins.
Conjugates	Unconjugated
Target Name	CD68
Other Names	CD68; CD68 antigen; CD68 molecule; DKFZp686M18236; Gp110; macrophage antigen CD68
Accession No.	Swiss-Prot#:P34810
SDS-PAGE MW	37kd
Concentration	1.0mg/ml
Formulation	Mouse IgG1 in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

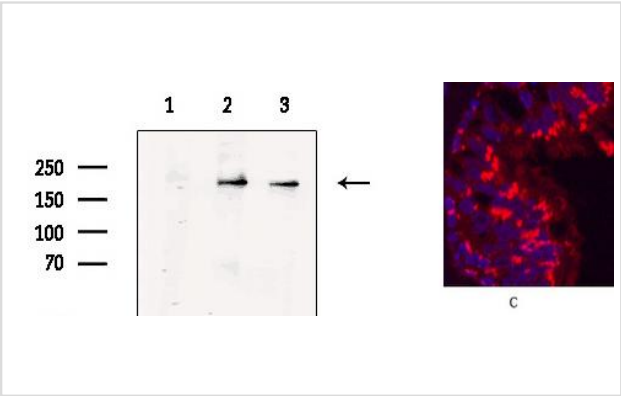
IHC dilution: 1:200

IF dilution:1:50-200

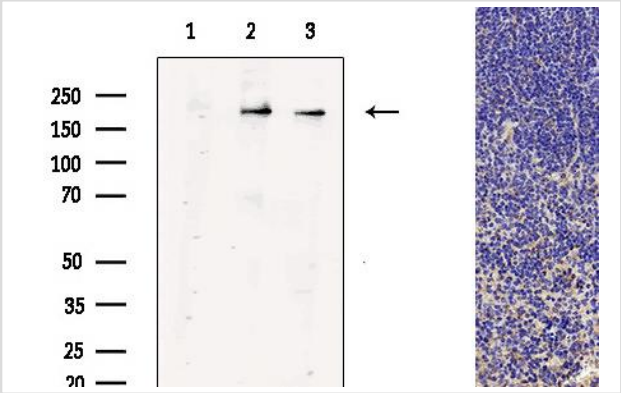
Images



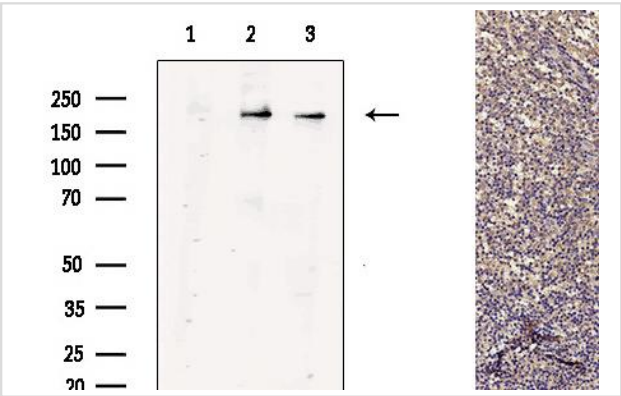
IHC staining of paraffin-embedded Human tonsil tissue CD68 mouse mAb(6F3) diluted at 1:200.



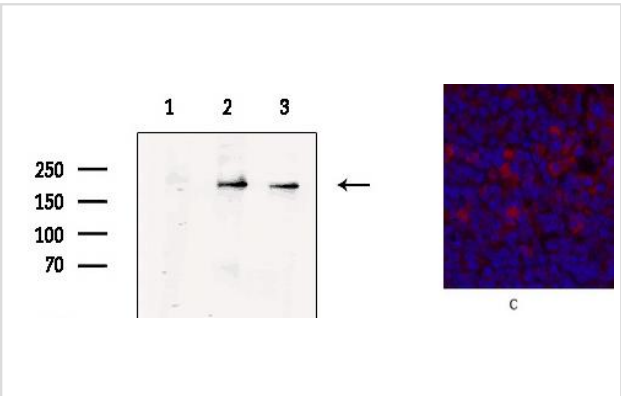
Immunofluorescence analysis of Human-lung-cancer tissue. 1,CD68 Monoclonal Antibody(6F3)(red) was diluted at 1:200(4C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunohistochemical analysis of paraffin-embedded Mouse-liver tissue. 1,CD68 Monoclonal Antibody(6F3) was diluted at 1:200(4C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Human-Tonsil tissue. 1,CD68 Monoclonal Antibody(6F3) was diluted at 1:200(4C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunofluorescence analysis of Mouse-spleen tissue. 1,CD68 Monoclonal Antibody(6F3)(red) was diluted at 1:200(4C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

Background

The CD68 antigen is a 37kD transmembrane protein that is post-translationally glycosylated to give a protein of 87-115kD. CD68 is specifically expressed by tissue macrophages, Langerhans cells and at low levels by dendritic cells. It could play a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. It binds to tissue- and organ-specific lectins or selectins, allowing homing of macrophage subsets to particular sites. Rapid recirculation of CD68 from endosomes and lysosomes to the plasma membrane may allow macrophages to crawl over selectin bearing substrates or other cells.

Published Papers

el at., Preliminary Study on the Antigen-Removal from Extracellular Matrix via Different Decellularization. In Tissue Eng Part C Methods on 2022 Jun by Huan Wu, Guangfu Yin, et al..PMID: 35596569, , (2022)

PMID:35596569

el at., Celecoxib alleviates denervation-induced muscle atrophy by suppressing inflammation and oxidative stress and improving microcirculation. In Biochem Pharmacol

on 2022 Sep by Lilei Zhang, Ming Li, et al..PMID:35882305, , (2022)

PMID:35882305

el at., SERPINB5 is a novel serum diagnostic biomarker for gastric high-grade intraepithelial neoplasia and plays a role in regulation of macrophage phenotypesInTransl OncolOn2023 NovbyXiuhong Huang 1, Xiaoli Xie et al..PMID: 37573714, , (2023)

PMID:37573714

el at., Celecoxib ameliorates diabetic sarcopenia by inhibiting inflammation, stress response, mitochondrial dysfunction, and subsequent activation of the protein degradation systems. In Front Pharmacol on 2024 Jan 19 by Chunyan Deng, Chunfeng Lu,et al..PMID:38313305, , (2024)

PMID:38313305

Mengyuan Chang;Ruiqi Liu;Bingqian Chen;Jin Xu;Wei Wang;Yanan Ji;Zihui Gao;Boya Liu;Xinlei Yao;Hualin Sun;Feng Xu;Yuntian Shen el at., hBMSC-EVs alleviate weightlessness-induced skeletal muscle atrophy by suppressing oxidative stress and inflammation., , (2025)

PMID:39901193

Note: This product is for in vitro research use only and is not intended for use in humans or animals.