CD68 (6F3) Mouse mAb

CatalogNo: YM3050 Orthogonal Validated

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- IHC,IF

MW
- 37kD (Observed)

Isotype
- IgG2b, Kappa

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

Recommended Dilution Ratios

IHC 1:200-400
IF 1:50-200

Basic Information

Clonality	Monoclonal
Clone Number	6F3

Immunogen Information

Immunogen	Synthetic Peptide of CD68
Specificity	The antibody detects endogenous CD68 proteins.

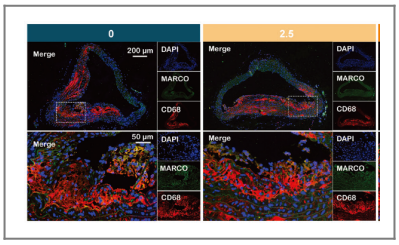
Target Information

Gene name	CD68
Protein Name	Macrosialin

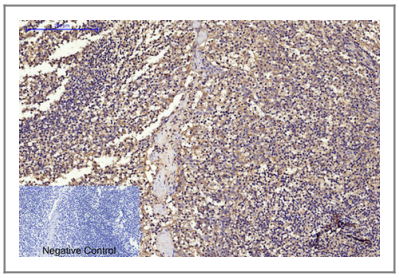
Organism	Gene ID	UniProt ID
Human	968;	P34810;
Mouse	12514;	P31996;

Cellular Localization	[Isoform Short]: Cell membrane; Single-pass type I membrane protein.; [Isoform Long]: Endosome membrane; Single-pass type I membrane protein. Lysosome membrane; Single-pass type I membrane protein.
Tissue specificity	Highly expressed by blood monocytes and tissue macrophages. Also expressed in lymphocytes , fibroblasts and endothelial cells. Expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium , facilitating their dissemination to secondary sites.
Function	Function:Could play a role in phagocytic activities of tissue macrophages , both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. Bind to tissue- and organ-specific lectins or selectins , allowing homing of macrophage subsets to particular sites. Rapid recirculation of CD68 from endosomes , lysosomes to the plasma membrane may allow macrophages to crawl over selectin bearing substrates or other cells. ,PTM:N- and O-glycosylated. ,similarity:Belongs to the LAMP family. ,tissue specificity:Highly expressed by blood monocytes and tissue macrophages. Also expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium , facilitating their dissemination to secondary sites. ,

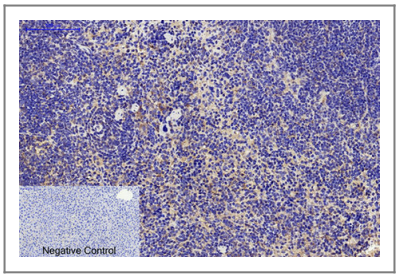
Validation Data



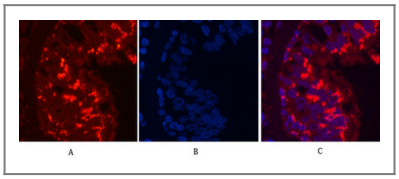
Long-Chain Acyl Carnitines Aggravate Polystyrene Nanoplastics-Induced Atherosclerosis by Upregulating MARCO. Zhenlie Huang IF Mouse aorta



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



Immunofluorescence analysis of Human-lung-cancer tissue. 1,CD68 Monoclonal Antibody (6F3) (red) was diluted at 1:200 (4℃ 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

Contact information

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Please scan the QR code to access additional product information: **CD68 (6F3) Mouse mAb**

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