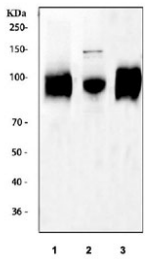
Cd68 Antibody (R30592)

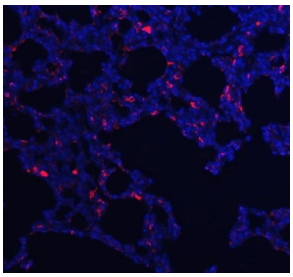
Catalog No.	Formulation	Size
R30592	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

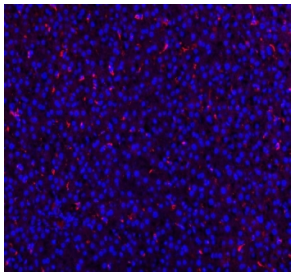
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P31996
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence (FFPE) : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This Cd68 antibody is available for research use only.



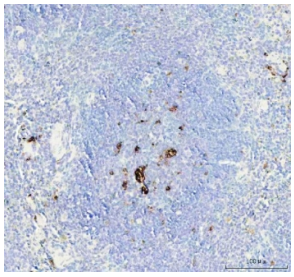
Western blot testing of 1) rat spleen, 2) mouse spleen and 3) mouse RAW264.7 cell lysate with Cd68 antibody. This protein can be highly glycosylated and is routinely visualized from 37~110 kDa.



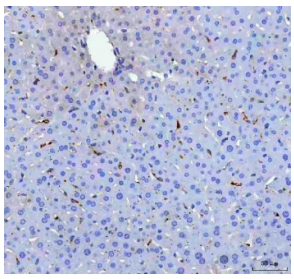
Immunofluorescent staining of FFPE rat lung tissue with Cd68 antibody (red) and DAPI nuclear stain (blue). Required HIER: steam section in pH8 EDTA buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of FFPE rat liver tissue with Cd68 antibody (red) and DAPI nuclear stain (blue). Required HIER: steam section in pH8 EDTA buffer for 20 min and allow to cool prior to staining.



IHC staining of FFPE mouse spleen tissue with Cd68 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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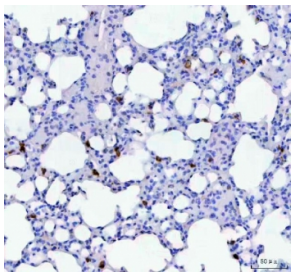
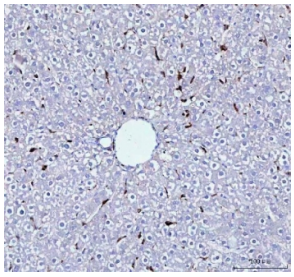
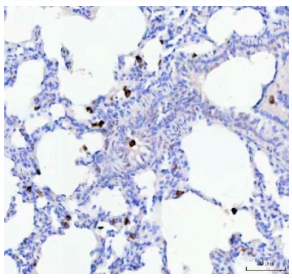


IHC staining of FFPE mouse lung tissue with Cd68 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat liver tissue with Cd68 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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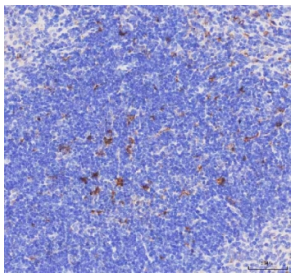
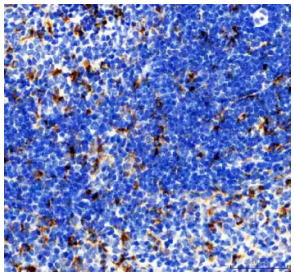


IHC staining of FFPE mouse spleen tissue with Cd68 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat spleen tissue with Cd68 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Cluster of differentiation 68 is a transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. CD68 is a member of a family of hematopoietic mucin-like molecules that includes leukosialin/CD43 and stem cell antigen CD34. The gene is mapped to 17p13.1. Immunohistochemistry can be used to identify the presence of CD68, which is found in the cytoplasmic granules of a range of different blood cells. It is particularly useful as a marker for the various cells of the macrophage lineage, including monocytes, histiocytes, giant cells, Kupffer cells, and osteoclasts. This allows it to be used to distinguish diseases of otherwise similar appearance, such as the monocyte/macrophage and lymphoid forms of leukaemia(the latter being CD68 negative). Its presence in macrophages also makes it useful in diagnosing conditions related to proliferation or abnormality of these cells, such as malignant histiocytosis, histiocytic lymphoma, and Gaucher's disease.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Cd68 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 312-326 (AFCITRRRQSTYQPL) from the mouse protein were used as the immunogen for this Cd68 antibody.

Storage

After reconstitution, the Cd68 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.