Datasheet for ABIN3044428

anti-CD68 antibody (Middle Region)

10 Images | 34 Publications

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Overview

Quantity:	100 µg
Target:	CD68
Binding Specificity:	AA 312-326, Middle Region
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD68 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Macrosialin(CD68) detection. Tested with WB, IHC-P, IHC-F in Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of mouse CD68(312-326aa AFCITRRRQSTYQPL), different from the related rat sequence by one amino acid.
Sequence:	AFCITRRRQS TYQPL
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Macrosialin(CD68) detection. Tested with WB, IHC-P, IHC-F in Mouse,Rat. Gene Name: CD68 Molecule

Product Details

	Protein Name: Macrosialin
Purification:	Immunogen affinity purified.

Target Details

Target:	CD68
Alternative Name:	CD68 (CD68 Products)
Background:	CD68, cluster of differentiation, is a 110-kD 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 CD68 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. Synonyms: CD 68 antibody|CD68 antibody|CD68 antigen antibody|CD68 Molecule antibody|CD68_HUMAN antibody|DKFZp686M18236 antibody|GP110 antibody|LAMP4 antibody|Macrophage antigen CD68(microsialin) antibody|MACROPHAGE ANTIGEN CD68 antibody|macrosialin antibody|SCARD1 antibody|Scavenger receptor class D member 1 antibody
UniProt:	P31996

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, Predicted Species: Mouse IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be

Application Details

	fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and IHC(F).
Restrictions:	For Research Use only

Handling

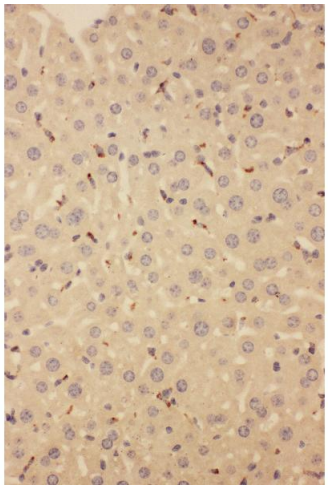
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:	Luchinat, Barbieri, Rubino, Kozyreva, Cantini, Banci: "In-cell NMR reveals potential precursor of toxic species from SOD1 fALS mutants." in: **Nature communications**, Vol. 5, pp. 5502, (2014) (PubMed).
	There are more publications referencing this product on: Product page

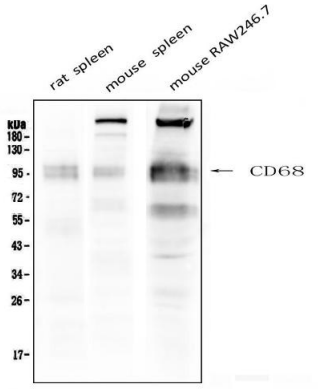
Western Blotting

Image 1.



Immunohistochemistry

Image 2. Anti-CD68 antibody, IHC(P) IHC(P): Mouse Liver Tissue



Anti-CD68(PA1518) antibody observed bind size:90-100KD

Western Blotting

Image 3. Anti-CD68 antibody, Western blotting Lane 1: Rat Spleen Tissue Lysate Lane 2: Mouse Spleen Tissue Lysate Lane 3: Mouse RAW246.7 Tissue Lysate

Please check the product details page for more images. Overall 10 images are available for ABIN3044428.