

Datasheet for ABIN3044053  
**anti-CD68 antibody (C-Term)**

2 Images

27 Publications

[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	CD68
Binding Specificity:	AA 341-354, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Macrosialin(CD68) detection. Tested with WB, IHC-P in Human.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human CD68(341-354aa FCIIRRRPSAYQAL).
Sequence:	FCIIRRRPSA YQAL
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 in Human. Gene Name: CD68 Molecule Protein Name: Macrosialin
Purification:	Immunogen affinity purified.

## Target Details

Target:	CD68
Alternative Name:	CD68 ( <a href="#">CD68 Products</a> )
Background:	<p>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.</p> <p>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</p>
UniProt:	<a href="#">P34810</a>

## Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for CD68 is approximately 1 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, 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.</p> <p>Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.</p> <p>Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
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 Na <sub>2</sub> HPO <sub>4</sub> , 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.
Expiry Date:	12 months

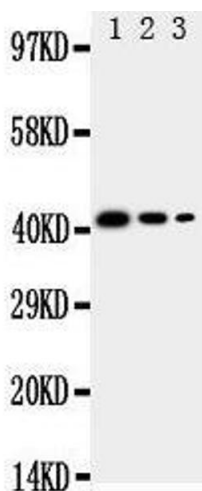
## Publications

Product cited in:	<p>Mao, Lu, Wang, Tian, Huang, Feng, Zhang, Chang: "Role of PI3K p110β in the differentiation of human embryonic stem cells into islet-like cells." in: <b>Biochemical and biophysical research communications</b>, Vol. 488, Issue 1, pp. 109-115, (2017) (<a href="#">PubMed</a>).</p> <p>Wang, Zhou, Zhang, Wu, Zhang, Zhang: "Identification and localization of gastrointestinal hormones in the skin of the bullfrog <i>Rana catesbeiana</i> during periods of activity and hibernation." in: <b>Acta histochemica</b>, Vol. 116, Issue 8, pp. 1418-26, (2014) (<a href="#">PubMed</a>).</p> <p>Chen, He, Peng, Liu, Jin, Cao, Wang, Xiao: "An immunohistochemical study of somatostatin in the stomach and the small intestine of the African ostrich (<i>Struthio camelus</i>)." in: <b>Tissue &amp; cell</b>, Vol. 45, Issue 6, pp. 363-6, (2013) (<a href="#">PubMed</a>).</p> <p>Jiang, Deng, Duan, Chen, Xiang, Lu, Ma: "Somatostatin receptors SSTR2 and SSTR5 are expressed in the human thoracic duct." in: <b>Lymphology</b>, Vol. 44, Issue 1, pp. 21-8, (2011) (<a href="#">PubMed</a>).</p>
-------------------	--

Zong, Chen, Zhang, Zou: "Effects of intra-gastric beta-casomorphin-7 on somatostatin and gastrin gene expression in rat gastric mucosa." in: **World journal of gastroenterology**, Vol. 13, Issue 14, pp. 2094-9, (2007) ([PubMed](#)).

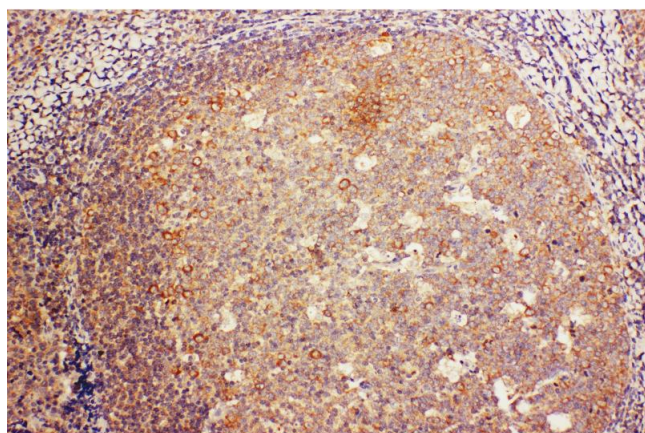
There are more publications referencing this product on: [Product page](#)

## Validation report #300031 for Immunohistochemistry (IHC)



### Western Blotting

**Image 1.** Lane 3: Recombinant Human CD68 Protein 2.5ng



### Immunohistochemistry

**Image 2.** Anti-CD68 antibody, IHC(P) IHC(P): Human Tonsil Tissue