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# Recombinant anti-CD47 antibody

**Images** 



#### Overview

Quantity:	100 μL
Target:	CD47
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This CD47 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC), ELISA

## **Product Details**

Immunogen:	A synthesized peptide derived from human CD47
Clone:	4G11
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Affinity-chromatography

# **Target Details**

Target:	CD47
Alternative Name:	CD47 (CD47 Products)
Background:	Background: Has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on

### **Target Details**

platelets, and in the modulation of integrins. Plays an important role in memory formation and synaptic plasticity in the hippocampus (By similarity). Receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. May play a role in membrane transport and/or integrin dependent signal transduction. May prevent premature elimination of red blood cells. May be involved in membrane permeability changes induced following virus infection.

Aliases: Leukocyte surface antigen CD47 (Antigenic surface determinant protein OA3) (Integrinassociated protein) (IAP) (Protein MER6) (CD antigen CD47), CD47, MER6

UniProt:

Q08722

# **Application Details**

Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IF:1:20-1:200,
Restrictions:	For Research Use only
Handling	
Format:	
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

Precaution of Use:

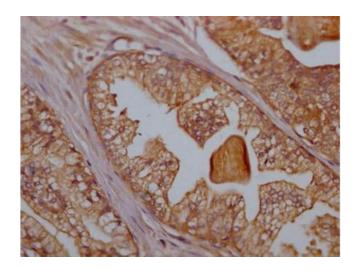
This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

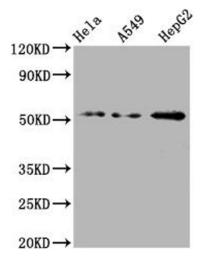
Storage:

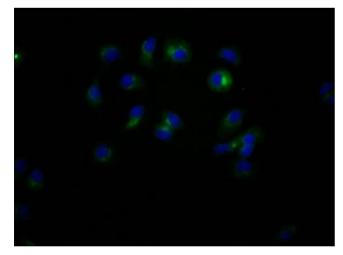
-20 °C,-80 °C

Storage Comment:

Upon receipt, store at -20 °C or -80 °C. Avoid repeated freeze.







#### **Immunohistochemistry**

Image 1. IHC image of ABIN7127404 diluted at 1:100 and staining in paraffin-embedded human prostate cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05 % DAB.

#### **Western Blotting**

Image 2. Western Blot Positive WB detected in: Hela whole cell lysate, A549 whole cell lysate, HepG2 whole cell lysate All lanes: CD47 antibody at 1:2000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 36, 32, 34 kDa Observed band size: 55 kDa

#### Immunofluorescence

Image 3. Immunofluorescence staining of MCF7 Cells with ABIN7127404 at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).