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# Datasheet for ABIN6941215 anti-CD47 antibody (AA 18-135)

6 Images



#### Overview

Quantity:	100 µg
Target:	CD47
Binding Specificity:	AA 18-135
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD47 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (IHC), ELISA, Staining Methods (StM), Coating (Coat)

## Product Details

Immunogen:	A recombinant fragment (around aa 18-135) of human CD47 protein (exact sequence is proprietary)
Clone:	CD47-3019
Isotype:	IgG1 kappa
Specificity:	This antibody reacts with Ig domain of CD47 protein. CD47, originally named integrin- associated protein (IAP), is a 50 kDa protein containing five membrane-spanning sequences and a short cytoplasmic tail. CD47 plays a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. It is important in memory formation and synaptic plasticity in the hippocampus. CD47 may play a role in membrane transport and/or integrin dependent signal transduction.

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## Product Details

Purification:

### Purified by Protein A/G

# Target Details

Target:	CD47
Alternative Name:	CD47 (CD47 Products)
Molecular Weight:	~50kDa
Gene ID:	961
UniProt:	Q08722

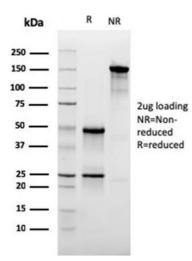
## Application Details

Application Notes:	Positive Control: MCF-7, HUVEC or OVCA3 cells (IF/FACS). Human placenta, brain or ovarian
	tumors (IHC).
	Known Application: ELISA (For coating, order antibody without BSA),Flow Cytometry (1-2 $\mu$
	g/million cells), Immunofluorescence (1-2 $\mu$ g/mL), ,Immunohistochemistry (Formalin-fixed) (1-
	2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue
	sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for
	20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

## Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

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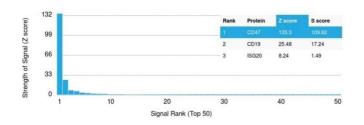


#### SDS-PAGE

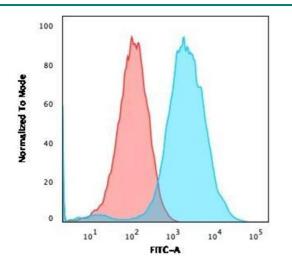
**Image 1.** SDS-PAGE Analysis Purified CD47 Mouse Monoclonal Antibody (IAP/3019). Confirmation of Integrity and Purity of Antibody.

#### **Protein Array**

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using CD47 Mouse Monoclonal Antibody (CD47/3019) Z- and S- Score: The Zscore represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Zscore, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



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#### **Flow Cytometry**

**Image 3.** Flow Cytometric Analysis of MCF-7 cells using CD47 Mouse Monoclonal Antibody (IAP/3019) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype control (Red).

Please check the product details page for more images. Overall 6 images are available for ABIN6941215.