

Datasheet for ABIN7321142  
**CD47 Protein (CD47) (His tag)**



[Go to Product page](#)

1 Image

## Overview

|                               |                                             |
|-------------------------------|---------------------------------------------|
| Quantity:                     | 100 µg                                      |
| Target:                       | CD47                                        |
| Origin:                       | Rat                                         |
| Source:                       | HEK-293 Cells                               |
| Protein Type:                 | Recombinant                                 |
| Biological Activity:          | Active                                      |
| Purification tag / Conjugate: | This CD47 protein is labelled with His tag. |

## Product Details

|                              |                                                                                                                                                                                 |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:                     | Recombinant Rat CD47 Protein (His Tag)(Active)                                                                                                                                  |
| Sequence:                    | Met1-Lys140                                                                                                                                                                     |
| Characteristics:             | A DNA sequence encoding the rat CD47 (P97829-1) (Met1-Lys140) was expressed, fused with a polyhistidine tag at the C-terminus.                                                  |
| Purity:                      | > 90 % as determined by SDS-PAGE                                                                                                                                                |
| Endotoxin Level:             | < 1.0 EU per µg of the protein as determined by the LAL method                                                                                                                  |
| Biological Activity Comment: | Measured by its binding ability in a functional ELISA. Immobilized Rat CD47-His at 10 µg/ml (100 µl/well) can bind mouse SIRPA-Fc, The EC50 of mouse SIRPA-Fc is 0.6-1.4 µg/ml. |

## Target Details

|         |      |
|---------|------|
| Target: | CD47 |
|---------|------|

## Target Details

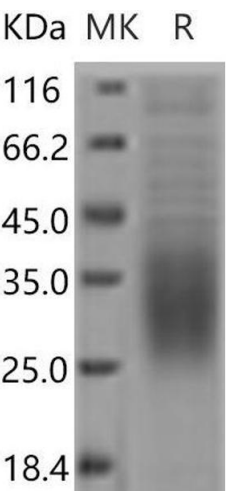
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alternative Name: | CD47 ( <a href="#">CD47 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Background:       | <p>Background: CD47 contains 1 Ig-like V-type (immunoglobulin-like) domain and is a receptor for the C-terminal cell binding domain of thrombospondin. It may play a role in membrane transport and signal transduction. CD47 is also a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. It is very broadly distributed on normal adult tissues, as well as ovarian tumors, being especially abundant in some epithelia and the brain. CD47 may play a role in membrane transport and/or integrin dependent signal transduction. It may prevent premature elimination of red blood cells. It also may be involved in membrane permeability changes induced following virus infection. By acting as an adhesion receptor for THBS1 on platelets, CD47 plays a role in both cell adhesion and in the modulation of integrins. It also plays an important role in memory formation and synaptic plasticity in the hippocampus.</p> <p>Immune Checkpoint Detection: Antibodies   Immune Checkpoint Detection: ELISA Antibodies   Immune Checkpoint Detection: WB Antibodies</p> <p>Immune Checkpoint Targets   Co-inhibitory Immune Checkpoint Targets   Immunotherapy   Cancer Immunotherapy   Targeted Therapy</p> <p>Synonym: CD47</p> |
| Molecular Weight: | 15.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Application Details

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

|                  |                                                                                                                                                                                                                                                        |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Format:          | Lyophilized                                                                                                                                                                                                                                            |
| Reconstitution:  | Please refer to the printed manual for detailed information.                                                                                                                                                                                           |
| Buffer:          | Lyophilized from sterile PBS, pH 7.4                                                                                                                                                                                                                   |
| Storage:         | 4 °C,-20 °C,-80 °C                                                                                                                                                                                                                                     |
| Storage Comment: | <p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p> |



Western Blotting

Image 1.