

For Research Use Only

# CD47 Polyclonal antibody

Catalog Number: 20305-1-AP

25 Publications



## Basic Information

|   |  |  |
|---|--|--|
| <b>Catalog Number:</b><br>20305-1-AP                          | <b>GenBank Accession Number:</b><br>BC010016 | <b>Purification Method:</b><br>Antigen affinity purification |
| <b>Size:</b><br>150ul , Concentration: 500 ug/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>961                 | <b>Recommended Dilutions:</b><br>IHC 1:500-1:2000            |
| <b>Source:</b><br>Rabbit                                      | <b>UNIPROT ID:</b><br>Q08722                 |  |
| <b>Isotype:</b><br>IgG  | <b>Full Name:</b><br>CD47 molecule           |  |
| <b>Immunogen Catalog Number:</b><br>AG14132                   | <b>Calculated MW:</b><br>323 aa, 35 kDa      |  |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>IHC, ELISA  | <b>Positive Controls:</b><br>IHC : human prostate cancer tissue, human ovary tumor tissue |
| <b>Cited Applications:</b><br>WB, IHC, IF  |   |
| <b>Species Specificity:</b><br>human   |   |
| <b>Cited Species:</b><br>human, mouse, rat   |   |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |   |

## Background Information

CD47, also known as integrin-associated protein (IAP), is a member of the immunoglobulin superfamily containing a five-pass transmembrane attachment. CD47 is heavily glycosylated and widely expressed by hematopoietic and nonhematopoietic cells. CD47 interacts with several membrane integrins and also acts as a receptor for thrombospondin (THBS1). It is involved in a range of cellular processes, including apoptosis, proliferation, adhesion, and migration. CD47 also functions as a ligand for signal regulatory protein- $\alpha$  (SIRP $\alpha$ ). Upon binding CD47, SIRP $\alpha$  initiates a signaling cascade that results in the inhibition of phagocytosis.

## Notable Publications

| Author       | Pubmed ID | Journal           | Application |
|--------------|-----------|-------------------|-------------|
| Haoyu Guo    | 36201949  | Biomaterials      |             |
| Haoyu Guo    | 36122895  | J Control Release | WB          |
| Sukhbir Kaur | 31632920  | Front Oncol       | IF          |

## Storage

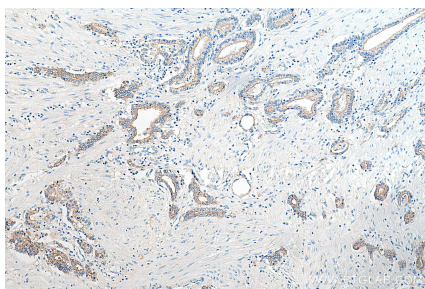
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

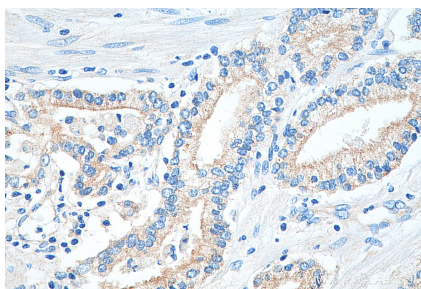
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 20305-1-AP (CD47 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 20305-1-AP (CD47 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).