For Research Use Only

# CD47 Polyclonal antibody

Catalog Number:20305-1-AP 18 Publications

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## Basic Information

Catalog Number:
20305-1-AP

Size:
150ul , Concentration: 350 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG14132

GenBank Accession Number:
BC010016

GeneID (NCBI):
961

UNIPROT ID:
Q08722

Full Name:
CD47 molecule

Calculated MW:
323 aa, 35 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IHC 1:500-1:2000

## Applications

Tested Applications:
IHC, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human

Cited Species:
human, rat, mouse

***Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0***

Positive Controls:

IHC : human prostate cancer tissue, human ovary tumor tissue

## 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-α (SIRPα). Upon binding CD47, SIRPα 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

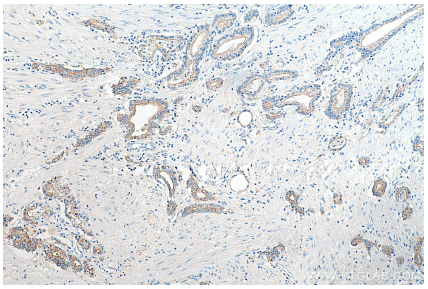
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

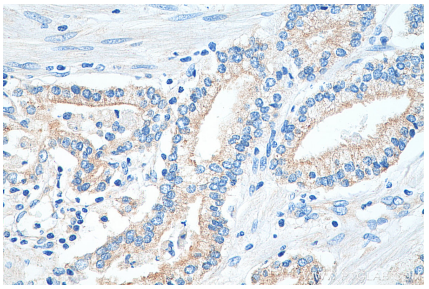
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## 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).