

**DATASHEET**

**CD47 Rabbit Monoclonal Antibody(ARA866)**

**CAT. NO. ARA6692**

**KEY FEATURES**

Target	GAP43	Source / Host	Rabbit
Reactivity	Human	Clonality	Monoclonal
Applications	IHC	Storage	-20°C

**BACKGROUND**

CD47 (Cluster of Differentiation 47) also known as integrin associated protein (IAP) is a transmembrane protein that in humans is encoded by the CD47 gene. CD47 belongs to the immunoglobulin superfamily and partners with membrane integrins and also binds the ligands thrombospondin-1 (TSP-1) and signal-regulatory protein alpha (SIRPα). Broad specificity aminopeptidase which plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. Also involved in the processing of various peptides including peptide hormones, such as angiotensin III and IV, neuropeptides, and chemokines. May also be involved the cleavage of peptides bound to major histocompatibility complex class II molecules of antigen presenting cells. May have a role in angiogenesis and promote cholesterol crystallization. CD47 is involved in a range of cellular processes, including apoptosis, proliferation, adhesion, and migration. Furthermore, it plays a key role in immune and angiogenic responses. CD47 is ubiquitously expressed in human cells and has been found to be overexpressed in many different tumor cells. Expression in equine cutaneous tumors has been reported as well.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

IHC	1:1000
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

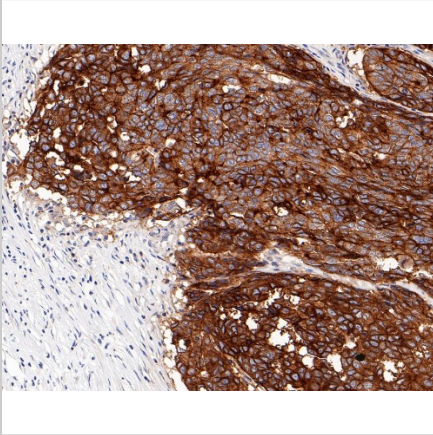
Antibody Type	Recombinant Rabbit monoclonal Antibody
Immunogen	Synthetic peptide within Human CD47 aa 50-150 (internal sequence)
Molecular Weight	Predicted band size: 35 kDa
Positive Control	Human ovarian tumor tissue, human prostate tissue, Jurkat
Conjugation	unconjugated
Form/Buffer	PBS (pH7.4), 0.1% BSA, 40% Glycerol, Preservative: 0.05% Sodium Azide
Isotype	IgG
Purification	Protein A affinity purified

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

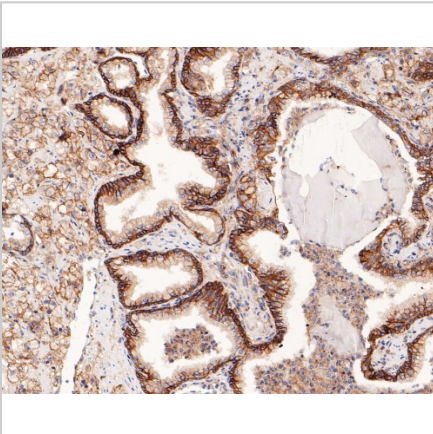
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Immunohistochemical analysis of paraffin-embedded human ovarian tumor tissue with CD47 Rabbit Monoclonal Antibody(ARA866)



Immunohistochemical analysis of paraffin-embedded human prostate tissue with CD47 Rabbit Monoclonal Antibody(ARA866)

**STORAGE**

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

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