

[KO Validated] CD47 Rabbit mAb

Catalog No.: A28498 **KO** **Validated** **Recombinant**

Basic Information

Observed MW

40-60 kDa

Calculated MW

33 kDa/35 kDa

Category

Primary antibody

Applications

WB,IHC-P,ELISA

Cross-Reactivity

Mouse

CloneNo number

ARC79515

Background

Predicted to enable protein binding activity involved in heterotypic cell-cell adhesion and thrombospondin receptor activity. Involved in positive regulation of activation-induced cell death of T cells; regulation of nitric oxide biosynthetic process; and regulation of synapse pruning. Acts upstream of or within several processes, including monocyte aggregation; opsonization; and positive regulation of phagocytosis. Located in extracellular exosome and plasma membrane. Is active in glutamatergic synapse and presynapse. Is expressed in several structures, including alimentary system; central nervous system; genitourinary system; hemolymphoid system gland; and liver and biliary system. Orthologous to human CD47 (CD47 molecule).

Recommended Dilutions

WB 1:2000 - 1:10000**IHC-P** 1:1500 - 1:6000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$) a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

16423

Swiss Prot

Q61735

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

IAP; Itgp; 9130415E20Rik; B430305P08Rik

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

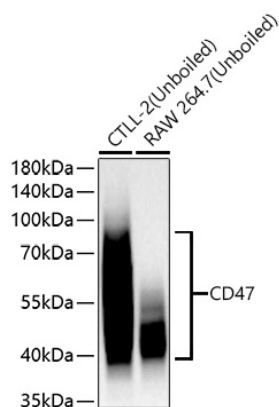
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

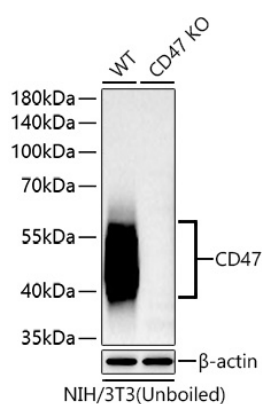
Contact

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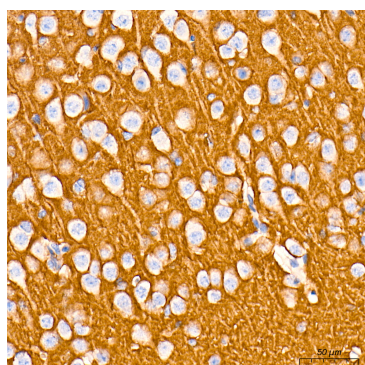
Validation Data



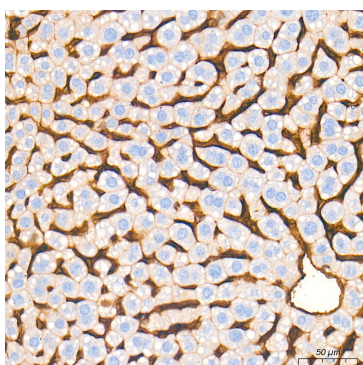
Western blot analysis of various lysates using [KO Validated] CD47 Rabbit mAb (A28498) at 1:5000 dilution incubated overnight at 4°C.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25 µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 20 s.



Western blot analysis of lysates from wild type (WT) and CD47 knockout (KO) NIH/3T3 cells using [KO Validated] CD47 Rabbit mAb (A28498) at 1:5000 dilution incubated overnight at 4°C.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25 µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 90 s.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using [KO Validated] CD47 Rabbit mAb (A28498) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using [KO Validated] CD47 Rabbit mAb (A28498) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.