www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

Anti-CD47 (Extracellular region) Antibody

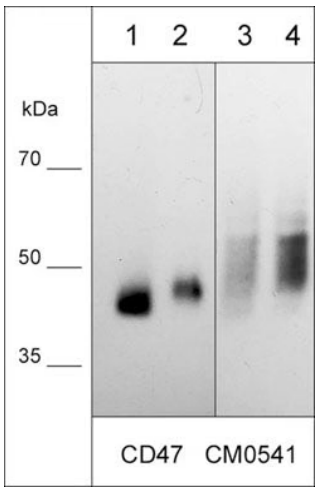
phosphosolutions ANTIBODIES THAT WORK

Product Details

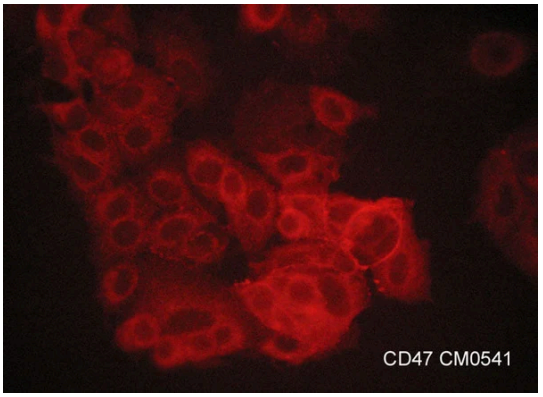
Available Variants	100 µL (SKU:CM0541)
Conjugate	Unconjugated
Isotype	IgG1
Clone	M054
Gene Name	CD47
Host Species	Mouse
Format	Protein G Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, IP, WB
Dilution Ranges	WB: 1:500 ICC: 1:200 IP: 1:100
Species Reactivity	Human
Immunogen	Clone (M054) was generated from a recombinant protein that included the extracellular region of human CD47 protein.
Specificity	Clone M054 mouse monoclonal antibody detects native human CD47, as well as aldehyde-fixed CD47. The antibody works for staining in immunocytochemistry, capture and detection in ELISA, native immunoprecipitation and western blot. The antibody detects a 45 to 55 kDa band in native western blots of A431, BEAS-2B, MCF7, NCI-H446, NCI-H28, and NCI-H2052 cell lines.
Molecular Weight	45-55
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	Q08722 UniProt Summary: Adhesive protein that mediates cell-to-cell interactions. Acts as a receptor for thrombospondin THBS1 and as modulator of integrin signaling through the activation of heterotrimeric G proteins. Involved in signal transduction, cardiovascular homeostasis, inflammation, apoptosis, angiogenesis, cellular self-renewal, and immunoregulation. Plays a role in modulating pulmonary endothelin EDN1 signaling. Modulates nitrous oxide (NO) signaling, in response to THBS1, hence playing a role as a pressor agent, supporting blood pressure. Plays an important role in memory formation and synaptic plasticity in the hippocampus. Receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. Positively modulates FAS-dependent apoptosis in T-cells, perhaps by enhancing FAS clustering. Plays a role in suppressing angiogenesis and may be involved in metabolic dysregulation during normal aging. In response to THBS1, negatively modulates wound healing. Inhibits stem cell self-renewal, in response to THBS1, probably by regulation of the stem cell transcription factors POU5F1/OCT4, SOX2, MYC/c-Myc and KLF4. May play a role in membrane transport and/or integrin dependent signal transduction. May prevent premature elimination of red blood cells.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	961

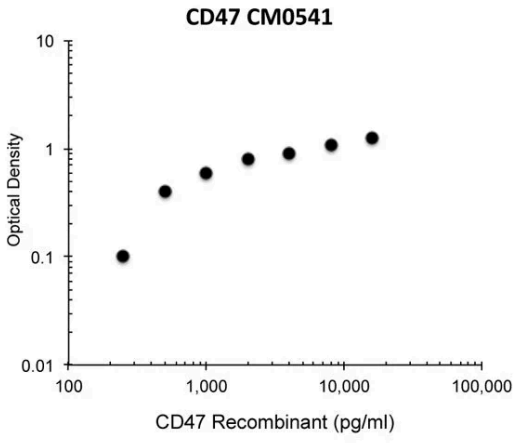
Product Images



Native western blot of human BEAS-2B lung cells (lane 1), NCI-H446 lung cancer cells (lane 2), lung mesothelioma cells: NCI-H28 (lane 3), and NCI-H2052 (lane 4). The blot was probed with mouse monoclonal anti-CD47 (CM0541) at 1:500.



Immunocytochemical labeling of CD47 in aldehyde fixed human MCF7 breast carcinoma cells. The cells were labeled with mouse monoclonal anti-CD47 (CM0541). The antibody was detected using goat anti-mouse DyLight® 594.



Representative Standard Curve using mouse monoclonal anti-CD47 (CM0541) for ELISA capture of human recombinant CD47 extracellular region with a His-tag. Captured protein was detected by suitable anti-His-tag antibody followed by appropriate secondary antibody HRP conjugate.



Created on 20. November 2026 | All information without guarantee