

CD63 (Extracellular region)

Mouse Monoclonal

Cat. # CM0341 **Size** 100 μl

Background

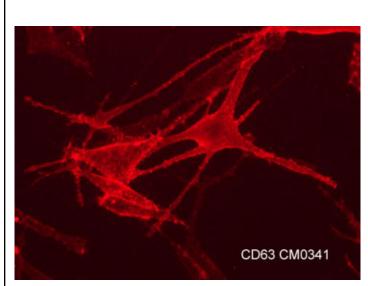
Tetraspanins comprise a large superfamily of cell surface-associated membrane proteins with four transmembrane domains. On cell membranes, tetraspanins form networks of various proteins called tetraspanin-enriched microdomains (TEMs). CD63 was the first characterized tetraspanin and it is found in TEMs, as well as late endosomes and lysosomes. In late endosomes, CD63 is enriched on the intraluminal vesicles, and can be secreted as exosomes through fusion of endosomes with the plasma membrane. The complex localization pattern of CD63 suggests that its intracellular trafficking and distribution must be tightly regulated. CD63 contains N-link glycosylation sites that produce diverse CD63 molecules that range from 30 to 60 kDa depending on cell type. CD63 is an important exosomal marker in cancer cells, and may be involved in cancer progression and metastasis.



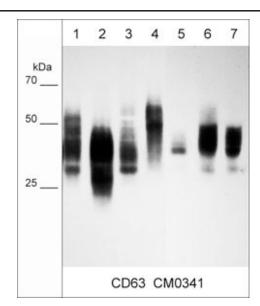
Guaranteed **O**utperform

Background References

Metzelaar, M.J. et al. (1991) J Biol Chem. 266(5):3239. Azorsa, D.O. et al. (1991) Blood. 78(2):280. Pols, MS & Klumperman, J (2009) Exp Cell Res. 315(9):1584.



Immunocytochemical labeling of CD63 in paraformaldehyde fixed human MeWo melanoma cells. The cells were labeled with mouse monoclonal CD63 (CM0341). The antibody was detected using goat anti-mouse Ig DyLight® 594.



Western blot of native human cell and tissue lyastes: A549 (lane 1), and A549 treated with PNGase F (lane 2), MDA-MB-231 (lane 3), MCF7 (lane 4), breast (lane 5), lung (lane 6), and skin (lane 7). The blot was probed with mouse monoclonal CD63 (CM0341) at 1:1000.

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Uniprot ID: P08962

Cat. # CM0341

Size 100 µl

Immunogen

Clone (M034) was generated from a proprietary antigen related to the native human CD63 expressed in MeWo melanoma cell line.

Buffer and Storage

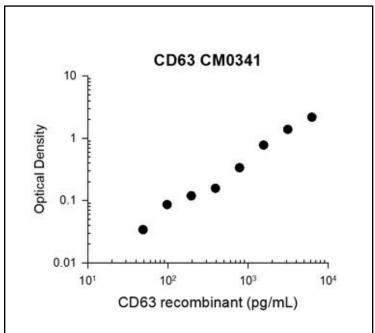
Mouse monoclonal antibody purified with protein G chromatography is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Applications		Species Reactivity
WB	1:2000	Hu
ELISA (Cap)	1:100	
ICC	1:100	
IP	1.100	lsotype: lgG1

End user should determine optimal dilution for their particular applications. Western blot membranes were incubated with diluted antibody in 5% non-fat milk, Tris buffer, 0.04% Tween20 for 1 hour at room temperature.

1:100

Abbreviations: E = ELISA, ELISA (Cap) = ELISA Capture ICC = immunocytochemistry, IHC = immunohistochemistry, IP = immunoprecipitation, MS = mass spectrometry, WB = western blot. Hu = Human, Ms = Mouse, Rt = Rat, Ck = Chicken, F = Frog, B = Bovine



Representative Standard Curve using mouse monoclonal anti-CD63 (CM0341) for ELISA capture of human recombinant CD63 extracellular region with His-tag. Capture was detected by using an anti-His-tag antibody followed by appropriate secondary antibody conjugated to HRP.

Specificity

IΡ

Clone M034 mouse monoclonal antibody detects a 30-60 kDa* protein on SDS-PAGE "Native" immunoblots of human A549, MeWo, MDA-MB-231, and MCF7 cells, as well as human breast, lung, and skin tissues. This antibody does not detect denatured CD63. The antibody works for western blot, immunoprecipitation, ELISA, and immunocytochemistry.

*All molecular weights (MW) are confirmed by comparison to MW standards and to western blot mobilities of known proteins with similar MW.
"Native" western blot utilizes non-reducing sample buffer (no mercaptoethanol or SDS), normal SDS-PAGE gel electrophoresis, and no methanol in transfer buffers.

Related Products

CM0401 CD63 (Extracellular region) Mouse Monoclonal

CM0071 CD44 (Extracellular region) Mouse Monoclonal

CM5881 CD44 (Hyaluron Binding Region) Mouse Monoclonal

CM0111 CD59 (glycoprotein) Mouse Monoclonal

CM0331 CD55 (Extracellular region) Mouse Monoclonal

CM0301 CD99 (Extracellular region) Mouse Monoclonal



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www.ecmbio.com toll-free: 1-800-859-8202 telephone: 859-879-2075 info@ecmbio.com