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PRODUCT DATASHEET

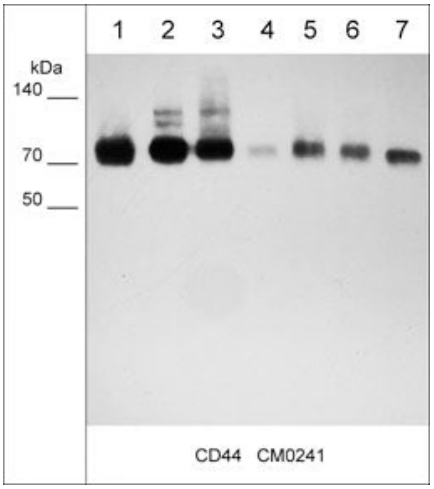
Anti-CD44 (Extracellular region) Antibody

Product Details

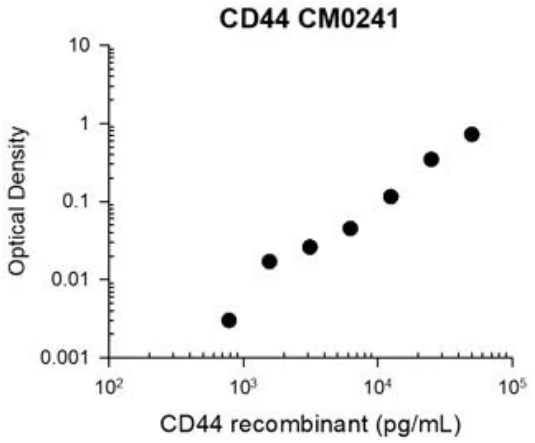
Available Variants	100 µL (SKU:CM0241)
Conjugate	Unconjugated
Isotype	IgG2a
Clone	M024
Gene Name	CD44
Host Species	Mouse
Format	Protein G Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, IP, WB
Dilution Ranges	WB: 1:1000 ICC: 1:100 IP: 1:100
Species Reactivity	Human
Immunogen	Clone M024 was generated from a proprietary antigen related to the extracellular region of human CD44 expressed in the MeWo melanoma cell line.
Specificity	Clone M024 detects 80-130 kDa* bands corresponding to the molecular mass of CD44 on SDS-PAGE immunoblots of native human MDA-MB-231, A549, MeWo, and A431 cell lysates. The antibody also detects denatured CD44 but with lower affinity. The antibody can be used for multiple applications including ELISA, western blot, immunocytochemical labeling and immunoprecipitation. In addition, the antibody labels live unfixed MeWo cells, so the antibody may be useful for isolating CD44+ cells and for CD44 functional assays.
Molecular Weight	80-130

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	P16070 UniProt Summary: Cell-surface receptor that plays a role in cell-cell interactions, cell adhesion and migration, helping them to sense and respond to changes in the tissue microenvironment. Participates thereby in a wide variety of cellular functions including the activation, recirculation and homing of T-lymphocytes, hematopoiesis, inflammation and response to bacterial infection. Engages, through its ectodomain, extracellular matrix components such as hyaluronan/HA, collagen, growth factors, cytokines or proteases and serves as a platform for signal transduction by assembling, via its cytoplasmic domain, protein complexes containing receptor kinases and membrane proteases. Such effectors include PKN2, the RhoGTPases RAC1 and RHOA, Rho-kinases and phospholipase C that coordinate signaling pathways promoting calcium mobilization and actin-mediated cytoskeleton reorganization essential for cell migration and adhesion. Upon interaction with LGALS9 ligand, activates downstream signaling components including LCK, ERK and MAPK to promotes NK cell activation.
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	960

Product Images



Immunocytochemical labeling of CD44 in paraformaldehyde fixed human MeWo cells. The cells were labeled with mouse monoclonal anti-CD44 (clone M024). The antibody was detected using goat anti-mouse DyLight® 594.



Representative Standard Curve using mouse monoclonal anti-CD44 (CM0241) for ELISA capture of human recombinant CD44 extracellular region with His-tag. Capture was detected by using an anti-His-tag antibody followed by appropriate secondary antibody conjugated to HRP.