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MacroCargo™ Mouse RAW264.7 with Anti-CEACAM6 antibody (Viral System, Lentivirus)

Cat. No.: MTS-1222-YF278

This product is for research use only and is not intended for diagnostic use.

Cell Properties

Product Overview	As a therapeutic tool, macrophage cell has a great capacity for delivering cargos be cause of their intrinsic characteristics. This product is engineered Mouse RAW264.7 carried with Anti-CEACAM6 antibody by Viral System-Lentivirus. MacroCargo™ prod ucts aim to improve the macrophage function and delivery of specific cargos. We als o provide custom macrophage delivery systems based on your specific requirement s.
Cell Name	RAW264.7
Cell Type	Cell Line
Cell Species	Mouse
Cell Background	RAW 264.7 is a macrophage cell line that was established from a tumor in a male m ouse induced with the Abelson murine leukemia virus.

Cargo Properties

Cargo Type	Checkpoint antibody
Specific Cargo	Anti-CEACAM6 antibody
Target Common Name	CEACAM6
Target Alternative Names	NCA; CEAL; CD66c
Target Full Name	CEA cell adhesion molecule 6
Introduction	This gene encodes a protein that belongs to the carcinoembryonic antigen (CEA) fa mily whose members are glycosyl phosphatidyl inositol (GPI) anchored cell surface glycoproteins. Members of this family play a role in cell adhesion and are widely us ed as tumor markers in serum immunoassay determinations of carcinoma. This gene affects the sensitivity of tumor cells to adenovirus infection. The protein encoded by this gene acts as a receptor for adherent-invasive E. coli adhesion to the surface of ileal epithelial cells in patients with Crohn's disease. This gene is clustered with gen es and pseudogenes of the cell adhesion molecules subgroup of the CEA family on chromosome 19.
UniprotID	P40199

GeneID	4680
Cargo Delivery System Type	Viral System
Cargo Delivery Approach	Lentivirus

Product Properties

Applications	Reduce inhibition of T cell activation
References	Marin-Acevedo, Julian A., ErinMarie O. Kimbrough, and Yanyan Lou. "Next generation of immune checkpoint inhibitors and beyond." *Journal of hematology & oncology* 14 (2021): 1-29. Distributed under Open Access license CC BY 4.0, without modification.
Mycoplasma Testing	Negative
Sterility Testing	Negative
Shipping	Dry ice
Storage	Frozen cells should be stored in a liquid nitrogen tank (-150°C~-190°C) for long term.
Handling Notes	Frozen cells should be thawed immediately upon receipt and grown according to handling procedure to ensure cell viability and proper assay performance.Note: Do not freeze the cells upon receipt as it may result in irreversible damage to the cell line. Disclaimer: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedure.
Restriction	Research use only