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MacroCargo™ Human THP-1 with Anti-B7-H4 antibody (Viral System, Lentivirus)

Cat. No.: MTS-1122-YF526

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 Human THP-1 car ried with Anti-B7-H4 antibody by Viral System-Lentivirus. MacroCargo™ products ai m to improve the macrophage function and delivery of specific cargos. We also prov ide custom macrophage delivery systems based on your specific requirements.
Cell Name	THP-1
Cell Type	Cell Line
Cell Species	Human
Cell Background	THP-1 is a monocyte isolated from peripheral blood from an acute monocytic leuke mia patient. This cell line can be used in immune system disorder research, immuno logy research, and toxicology research.

Cargo Properties

Cargo Type	Checkpoint antibody
Specific Cargo	Anti-B7-H4 antibody
Target Common Name	VTCN1
Target Alternative Names	B7X; B7H4; B7S1; B7-H4; B7h.5; VCTN1; PRO1291
Target Full Name	V-set domain containing T cell activation inhibitor 1
Introduction	This gene encodes a protein belonging to the B7 costimulatory protein family. Protei ns in this family are present on the surface of antigen-presenting cells and interact with ligand bound to receptors on the surface of T cells. Studies have shown that hi gh levels of the encoded protein has been correlated with tumor progression. A pse udogene of this gene is located on chromosome 20. Multiple transcript variants enc oding different isoforms have been found for this gene.
UniprotID	Q7Z7D3
GeneID	79679

Cargo Delivery System Type	Viral System
Cargo Delivery Approach	Lentivirus

Product Properties

Applications	Improve macrophages persist in solid tumors
References	Brom, Victoria C., et al. "The role of immune checkpoint molecules on macrophages in cancer, infection, and autoimmune pathologies." *Frontiers in Immunology* 13 (2022): 837645. 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