

Exosomal Marker Antibody Sampler Kit

Cat# AK0157

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

Exosomes are small membrane-bound vesicles that in recent years have emerged as important molecules for inter-cellular communication. Exosomes are produced during both normal and pathophysiological conditions, and cancer cells have been shown to secrete exosomes in greater amounts than normal cells. The exosomal markers contained in this kit are Alix, Annexin V, ICAM-1, CD9, GM130, EpCAM, flotillin, and HSP70. Alix, a cytosolic scaffold protein, regulates many cellular processes including endocytic membrane trafficking, cell adhesion through interactions with ESCRT (endosomal sorting complex required for transport) proteins, endophilins, and CIN85 (Cbl-Interacting protein of 85 kDa). Annexin V is a ~30 kDa protein that binds to phospho-lipids in a calcium-dependent manner. All annexins contain a putative PKC binding site, but only annexin V has been identified as an inhibitor of this pathway. Intracellular cell adhesion molecule-1 (CD54 or ICAM-1) is a cell surface glycoprotein that belongs to the immunoglobulin superfamily (IgSF) of adhesion molecules. CD54 is expressed at low levels in diverse cell types, and is induced by cytokines (TNF-alpha, interleukin-1) and bacterial lipopolysaccharides. Apical localization on endothelial cells (or basolateral localization on epithelial cells) is a prerequisite for leukocyte trafficking through the endothelial (or epithelial) barrier. The CD9 antigen belongs to the tetraspanin family of cell surface glycoproteins. Tetraspanins interact with a variety of cell surface proteins and intracellular signaling molecules in specialized tetraspanin-enriched microdomains (TEMs), where they mediate a range of processes including adhesion, motility, membrane organization, and signal transduction. Additional research identified CD9 as an abundant component of exosomes, and may play a role in the fusion of these secreted membrane vesicles with recipient cells. GM130 is required for membrane fusion events that mediate ribbon formation during Golgi assembly. The Golgi apparatus functions i

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340746	ANXA5 Polyclonal Antibody	20µL	WB, IHC	Human, Mouse, Rat	Rabbit
A340558	CD54 Polyclonal Antibody	20µL	WB, ELISA	Human	Rabbit
A340143	GOLGA2 Polyclonal Antibody	20µL	WB, IHC, ELISA	Human	Rabbit
A340509	EPCAM Polyclonal Antibody	20µL	WB, IF, ELISA	Human	Rabbit

A330125	FN1 Monoclonal Antibody	20μL	WB	Human, Mouse, Rat	Mouse
A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120μL	WB, ELISA	Rabbit	Goat
A1012s	Goat Anti-Mouse IgG (H+L) (peroxidase/HRP conjugated)	120μL	WB, ELISA	Mouse	Goat

PRODUCT USE LIMITATION

These products are intended for research use only.