

# Vesicle Trafficking Antibody Sampler Kit

Cat# AK0282

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

## PRODUCT DESCRIPTION

Vesicle trafficking is an integral cellular process and the associated proteins involved also play major roles in other signaling pathways. Caveolins are involved in diverse biological functions including vesicular trafficking, cholesterol homeostasis, cell adhesion, apoptosis, and are also indicated in neurodegenerative disease. It is believed that caveolins serve as scaffolding proteins for the integration of signal transduction. Phosphorylation at Tyr14 is essential for caveolin association with SH2 or PTB domain-containing adaptor proteins, such as GRB7. Clathrin-coated vesicles provide for the intracellular transport of proteins following endocytosis and during multiple vesicle trafficking pathways. Vesicles form at specialized areas of the cell membrane where clathrin and associated proteins form clathrin-coated pits. Invagination of these cell membrane-associated pits internalizes proteins and forms an intracellular clathrin-coated vesicle. Clathrin is the most abundant protein in these vesicles and is present as a basic assembly unit called a triskelion. Each clathrin triskelion is composed of three clathrin heavy chains and three clathrin light chains. Clathrin heavy chain proteins are composed of several functional domains that associate with other vesicle proteins. The APPL1 multidomain adaptor protein is a BAR-domain protein family member that is involved in membrane trafficking within a number of signal transduction pathways. EEA1 is an early endosomal marker and a Rab5 effector protein essential for early endosomal membrane fusion and trafficking. Syntaxin 6 is a ubiquitously expressed S25C family member of the SNARE proteins. Syntaxin 6 protein is localized to the trans-Golgi and within endosomes and regulates membrane trafficking by partnering with a variety of other SNARE proteins. It has two coiled-coil domains (CC1 and CC2) located in the amino-terminal region and a PDZ domain in the carboxy-terminal region. The CC2 domain and its adjacent linker region mediate the association of GOPC with the

## PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340472	CAV1 Polyclonal Antibody	20µL	WB, ELISA	Human, Mouse, Rat	Rabbit
A340204	Phospho-CAV1 (Tyr14) Polyclonal Antibody	20µL	WB, ELISA	Human, Mouse, Rat	Rabbit
A340127	CLTC Polyclonal Antibody	20µL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit

<b>A340431</b>	APPL1 Polyclonal Antibody	20μL	WB, ELISA	Human, Mouse	Rabbit
<b>A340705</b>	EEA1 Polyclonal Antibody	20μL	WB, ELISA	Human, Mouse	Rabbit
<b>A340405</b>	RAB5A Polyclonal Antibody	20μL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
<b>A1013s</b>	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120μL	WB, ELISA	Rabbit	Goat

## **PRODUCT USE LIMITATION**

These products are intended for research use only.