Trident Endosome Isolation Kit

Cat. No. GTX35192

Applications WB

References (5)
Package
20 test, 5 test

PRODUCT

Summary

Early endosomes (EE) provide the starting point for late endosome maturation. The EEs are mainly derived from primary endocytic vesicles that fuse with each other. EEs receive endocytic cargo not only through the clathrin-mediated pathway but several other pathways. In addition to their roles in normal cell physiology, endocytic processes play a key role in many diseases such as Alzheimer disease and inherited lysosomal storage diseases. Traditional methods for isolating endosomes are based on density gradient ultracentrifugation. The protocol requires large amount of starting material and the methods are tedious and time consuming. The Endosome Isolation and Cell Fractionation Kit provides a spin-column based novel endosome isolation technology that is rapid, simple and requires smaller number of cultured cells or milligram amounts of tissues. This kit can precipitate and significantly enrich early endosomes from cultured cells or tissues. The availability of the kit should facilitate the research in the field.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

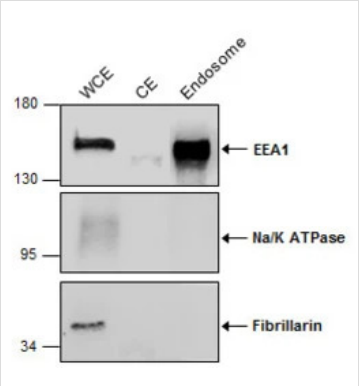
Suggested dilution	Recommended dilution
WB	Assay dependent

Not tested in other applications.

Properties

Storage	Ship at ambient temperature and store the kit at 4°C.
Note	For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. Spin column-based protein extraction and cell fractionation technologies were developed by Invent Biotechnologies, Inc.

DATA IMAGES



GTX35192 WB Image

HepG2 cells were lysed and extracted by GTX35192 Endosome Isolation and Cell Fractionation Kit.
When following the protocol, cell extracts would be isolated into cytosolic and total membrane.
The fractions were then assayed by Western Blot analysis, membrane was blotted with an early endosome antigen 1- EEA1 antibody (GTX109638, subcellular marker), a plasma membrane protein- Na/K ATPase antibody (subcellular marker), and a nucleolar small nuclear ribonucleoprotein- Fibrillarin antibody (GTX113684, subcellular marker).
Abbreviations:
WCE : whole cell extract
CE : cytosolic extract

For full product information, images and publications, please visit our website.

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