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#12666**Endosomal Marker Antibody Sampler Kit**
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1 Kit (6 x 20 microliters)

For Research Use Only. Not for Use in Diagnostic Procedures.

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Caveolin-1 (D46G3) XP [®] Rabbit mAb	3267	20 µl	21, 24 kDa	Rabbit IgG
Clathrin Heavy Chain (D3C6) XP [®] Rabbit mAb	4796	20 µl	190 kDa	Rabbit IgG
EEA1 (C45B10) Rabbit mAb	3288	20 µl	170 kDa	Rabbit IgG
Rab5A (E6N8S) Mouse mAb	46449	20 µl	25 kDa	Mouse IgG1
Rab7 (D95F2) XP [®] Rabbit mAb	9367	20 µl	23 kDa	Rabbit IgG
Rab11 (D4F5) XP [®] Rabbit mAb	5589	20 µl	25 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat
Anti-mouse IgG, HRP-linked Antibody	7076	100 µl		Horse

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.**Description**

The Endosomal Marker Antibody Sampler Kit provides an economical means of distinguishing endosomes in the early, late, and recycling phases. The kit includes enough antibody to perform two western blot experiments with each primary antibody.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Background

Endosomes are formed by the invagination of the plasma membrane to form vesicles in an effort to recycle components of the cell (1). Endosomes can be coated in clathrin when vesicles form at clathrin-coated pits (2). Caveolins are 21-24 kDa integral proteins that interact with cholesterol and are the main structural components of the cholesterol/sphingolipid-enriched plasma membrane caveolae (3). Each stage of endosome maturation is marked by a unique set of proteins. EEA1 is an early endosome marker that is essential for membrane fusion and trafficking (4). Members of the ras superfamily of small Rab GTPases, specifically Rab5, Rab7, and Rab11 are markers of the early, late and recycling endosomes (5).

Background References

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- Okamoto, T. et al. (1998) *J Biol Chem* 273, 5419-22.
- Christoforidis, S. et al. (1999) *Nature* 397, 621-5.
- Zerial, M. and McBride, H. (2001) *Nat Rev Mol Cell Biol* 2, 107-17.

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