

#12666 Store at -20°C

## Endosomal Marker Antibody Sampler Kit

1 Kit (6 x 20 microliters)



**Cell Signaling**  
TECHNOLOGY®

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**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](http://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

1. Huotari, J. and Helenius, A. (2011) *EMBO J* 30, 3481-500.
2. Rodriguez-Boulan, E. et al. (2005) *Nat Rev Mol Cell Biol* 6, 233-47.
3. Okamoto, T. et al. (1998) *J Biol Chem* 273, 5419-22.
4. Christoforidis, S. et al. (1999) *Nature* 397, 621-5.
5. Zerial, M. and McBride, H. (2001) *Nat Rev Mol Cell Biol* 2, 107-17.

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