

**Cellular Localization Alexa Fluor® 647
Conjugated Antibody Sampler Kit**

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

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
COX IV (3E11) Rabbit mAb (Alexa Fluor® 647 Conjugate)	7561	40 µl		Rabbit IgG
PDI (C81H6) Rabbit mAb (Alexa Fluor® 647 Conjugate)	8463	40 µl		Rabbit
β-Tubulin (9F3) Rabbit mAb (Alexa Fluor® 647 Conjugate)	3624	40 µl		Rabbit IgG
β-Actin (13E5) Rabbit mAb (Alexa Fluor® 647 Conjugate)	8584	40 µl		Rabbit IgG
Rabbit (DA1E) mAb IgG XP® Isotype Control (Alexa Fluor® 647 Conjugate)	2985	40 µl		Rabbit IgG

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

Description	The Cellular Localization Alexa Fluor® 647 Conjugated Antibody Sampler Kit provides an economical means for identification of cellular organelles without the need for a fluorescent secondary antibody. This kit includes enough primary antibody to perform at least 20 IF-IC tests per 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	Knowledge of the subcellular location of a protein may reveal the potential role it plays in the cell. The subcellular location of a protein of interest may be confirmed by colocalization with one of the organelle-specific antibodies in this kit. β-Actin and β-tubulin are ubiquitous eukaryotic proteins that form the major component of the cellular cytoskeleton (1,2). Cytochrome c oxidase (COX) IV is part of the hetero-oligomeric enzyme found in the inner mitochondrial membrane (3). Protein disulfide isomerase (PDI) catalyzes the formation and isomerization of disulfide bonds in the endoplasmic reticulum (4).
Background References	1. Herman, I.M. (1993) <i>Curr Opin Cell Biol</i> 5, 48-55. 2. Westermann, S. and Weber, K. (2003) <i>Nat Rev Mol Cell Biol</i> 4, 938-47. 3. Ostermeier, C. et al. (1996) <i>Curr Opin Struct Biol</i> 6, 460-6. 4. Ellgaard, L. and Ruddock, L.W. (2005) <i>EMBO Rep</i> 6, 28-32.

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