Revision 1

Store at -20C

#11843

Cell Fractionation Antibody Sampler Kit

1 Kit (4 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
MEK1/2 (D1A5) Rabbit mAb	8727	20 µl	45 kDa	Rabbit IgG
AIF (D39D2) XP® Rabbit mAb	5318	20 µl	67 kDa	Rabbit IgG
Histone H3 (D1H2) XP® Rabbit mAb	4499	20 µl	17 kDa	Rabbit IgG
Vimentin (D21H3) XP® Rabbit mAb	5741	20 µl	57 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

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

Description

The Cell Fractionation Antibody Sampler Kit provides an economical means for determining the purity of each distinctly separated subcellular fraction by western blot using Cell Signaling Technology's Cell Fractionation Kit #9038. This antibody sampler kit includes enough primary antibody to perform at least two western blots per 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

Knowledge of the subcellular location of a protein may reveal the potential role it plays in a variety of cellular processes. Antibodies in the Cell Fractionation Antibody Sampler Kit can be used as a marker to ensure that each subcellular fraction is efficiently separated from the next. MEK1 and MEK2, also called MAPK or Erk Kinases, are dual-specificity protein kinases that function in a mitogen activated protein kinase cascade (1). Apoptosis-inducing factor (AIF) is a ubiquitously expressed flavoprotein that plays a critical role in caspase-independent apoptosis (2). Core histone protein, H3 is one of the primary building blocks of chromatin that makes up the nucleosome (3). Vimentin is a cell-specific intermediate filament with mesenchyme origin that contributes to making up of the cytoskeleton (4). MEK1/2, AIF, histone H3, and vimentin localize to the cytoplasm, mitochondria, nucleus, and cytoskeleton, respectively.

Background References

1. Crews, C.M. et al. (1992) *Science* 258, 478-80.
2. Lipton, S.A. and Bossy-Wetzel, E. (2002) *Cell* 111, 147-50.
3. Workman, J.L. and Kingston, R.E. (1998) *Annu Rev Biochem* 67, 545-79.
4. Eng, L.F. et al. (2000) *Neurochem Res* 25, 1439-51.

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