

Store at
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#74437

Fanconi Anemia Antibody Sampler Kit



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1 Kit (5 x 20 microliters)

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

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
FANCA (D1L2Z) Rabbit mAb	14657	20 µl	160 kDa	Rabbit IgG
FANCB (D9W6S) Rabbit mAb	14243	20 µl	90 kDa	Rabbit IgG
FANCD2 (D5L5X) Rabbit mAb	16323	20 µl	155, 162 kDa	Rabbit IgG
BRCA2 (D9S6V) Rabbit mAb	10741	20 µl	380 kDa	Rabbit IgG
BRIP1/FANCI Antibody	4578	20 µl	145 kDa	Rabbit
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 Fanconi Anemia Antibody Sampler Kit provides an economical means of detecting members of the Fanconi Anemia signaling pathway. 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 antibodies.

Background

Fanconi anemia (FA) is an autosomal recessive genetic disorder resulting in symptoms that include chromosomal breakage, bone marrow failure, hypersensitivity to DNA cross-linking agents (such as mitomycin C), and a predisposition to cancer (1). In response to DNA damage, the FA nuclear complex (FANCA, FANCB, FANCC, FANCF, FANCG, FANCM) induces mono-ubiquitination of FANCD2 and FANCI (2). Monoubiquitination of FANCD2 induces localization of FANCD2 to sites of DNA damage, where it interacts with BRCA1. FANCI/BRIP1, FANCD1/BRCA2, and FANCN/PALB2 are also recruited to sites of DNA damage (3).

Background References

1. Alter, B.P. (1996) *Am J Hematol* 53, 99-110.
2. Fei, P. et al. (2005) *Cell Cycle* 4, 80-6.
3. Garcia-Higuera, I. et al. (2001) *Mol Cell* 7, 249-62.

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