

Product Data Sheet

Purified anti-Fanconi anemia D2 Phospho (Ser222)

Catalog # / Size: 618002 / 200 µl (20 Western blots)

Clone: Poly6180 Isotype: Rabbit IgG Immunogen: Modified peptide

Reactivity: Human, reacts with Ser222-phosphorylated FANCD2

Preparation: The antibody was purified by antigen-affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing

0.09% sodium azide and 50% glycerol.

Storage: Upon receipt, store frozen at -20° C.

Applications:

Applications: WB

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western

blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for

optimal performance for each application.

Description: Fanconi anemia (also known as Fanconi anemia complementation group D2 (FANCD2)) is a 166 kD member of Fanconi anemia complementation group

D. There are multiple isoforms of this nuclear protein including a post-translationally modified form. Activated FANCD2 co-localizes with BRCA1 in ionizing radiation-induced foci and in synaptonemal complexes of meiotic chromosomes. This protein is critical for cellular resistance to DNA cross-linking and cell-cycle arrest after ionizing radiation. DNA damage leads

to monoubiquitination of FANCD2 and targeting to nuclear foci. Monoubiquitination occurs during normal cell cycle progression and is required for RAD51 and BRCA1 binding. This protein forms a complex with Fanconi proteins A, C, F, and G. FANCD2 has also been shown to bind to BRCA1, NBS1, and RAD51. The Poly6180 antibody recognizes the

phosphorylated human FANCD2 protein (Ser222) and has been shown to be

useful for Western blotting.

Antigen References: 1. Timmers C, et al. 2001. Mol. Cell 7:241.

2. Gordon S, et al. 2003. Blood 102:136.

3. Taniguchi T, et al. 2002. Blood 100:2414.

4. Nakanishi K, et al. 2002. Nat. Cell. Biol. 4:913.

Related Products: Product

Purified anti-BRCA1

Purified anti-Fanconi anemia D2

HRP Donkey anti-rabbit IgG (minimal x-reactivity)

Clone Poly6121 Poly6214

Poly4064 ELISA, IHC, WB

220 p-Fanconi anemia D2 (Ser222) 97 66 30-21

Hela nuclear extract was resolved by electrophoresis, transferred to nitrocellulose, and probed with rabbit anti-Fanconi D2 (Ser222) antibody. Proteins were visualized using a donkey anti-rabbit secondary conjugated to HRP and a chemiluminescence detection system. Lane 1, control cells. Lane 2, Hela cells exposed to 10 Gy radiation harvested at 2 hrs.

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Application



