

Datasheet for ABIN6255106
anti-FANCD2 antibody (pSer222)

3 Images

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Overview

| | |
|----------------------|--|
| Quantity: | 100 µL |
| Target: | FANCD2 |
| Binding Specificity: | pSer222 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This FANCD2 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC) |

Product Details

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|-----------------------|---|
| Immunogen: | A synthesized peptide derived from human FANCD2 around the phosphorylation site of Ser222. |
| Isotype: | IgG |
| Specificity: | Phospho-FANCD2 (Ser222) Antibody detects endogenous levels of FANCD2 only when phosphorylated at Serine 222. |
| Predicted Reactivity: | Pig,Bovine,Horse,Sheep,Rabbit,Dog,Xenopus |
| Purification: | The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns. |

Target Details

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|---------|--------|
| Target: | FANCD2 |
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Target Details

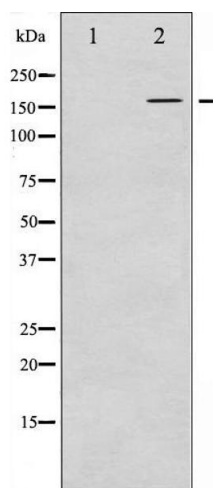
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|-------------------|--|
| Alternative Name: | FANCD2 (FANCD2 Products) |
| Background: | <p>Description: Required for maintenance of chromosomal stability. Promotes accurate and efficient pairing of homologs during meiosis. Involved in the repair of DNA double-strand breaks, both by homologous recombination and single-strand annealing. May participate in S phase and G2 phase checkpoint activation upon DNA damage. Plays a role in preventing breakage and loss of missegregating chromatin at the end of cell division, particularly after replication stress. Required for the targeting, or stabilization, of BLM to non-centromeric abnormal structures induced by replicative stress. Promotes BRCA2/FANCD1 loading onto damaged chromatin. May also be involved in B-cell immunoglobulin isotype switching.</p> <p>Gene: FANCD2</p> |
| Molecular Weight: | 166kDa |
| Gene ID: | 2177 |
| UniProt: | Q9BXW9 |
| Pathways: | DNA Damage Repair |

Application Details

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|--------------------|---|
| Application Notes: | WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000 |
| Restrictions: | For Research Use only |

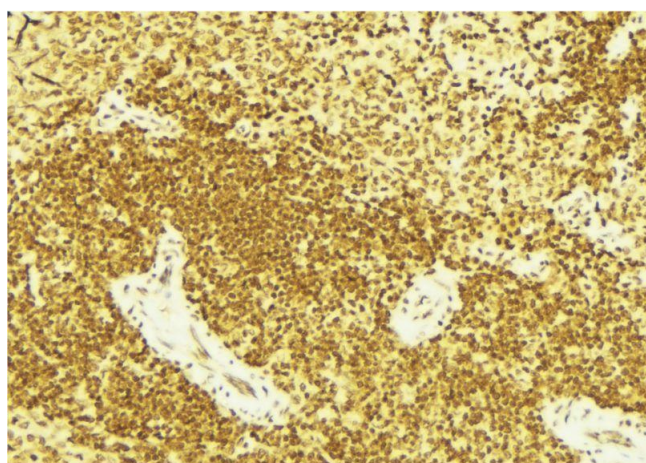
Handling

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| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20 °C. Stable for 12 months from date of receipt. |
| Expiry Date: | 12 months |



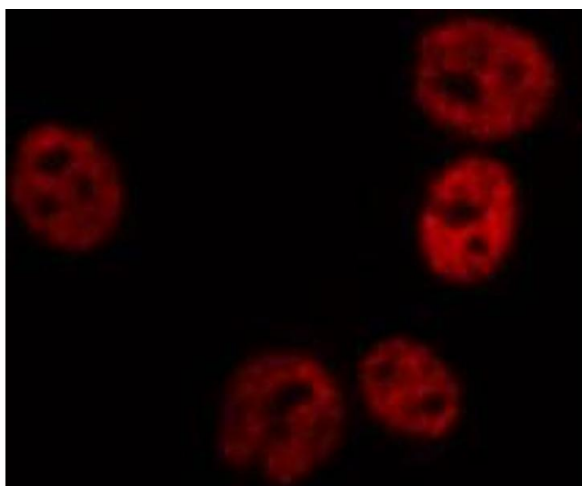
Western Blotting

Image 1. Western blot analysis of FANCD2 phosphorylation expression in CalyculinA treated HT29 whole cell lysates. The lane on the left is treated with the antigen-specific peptide.



Immunohistochemistry

Image 2. ABIN6267689 at 1/100 staining Mouse spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunofluorescence (fixed cells)

Image 3. ABIN6267689 staining HT29 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.