

## FANCD2 (Phospho-Ser222) Antibody

Catalog No: #11965



Package Size: #11965-1 50ul #11965-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

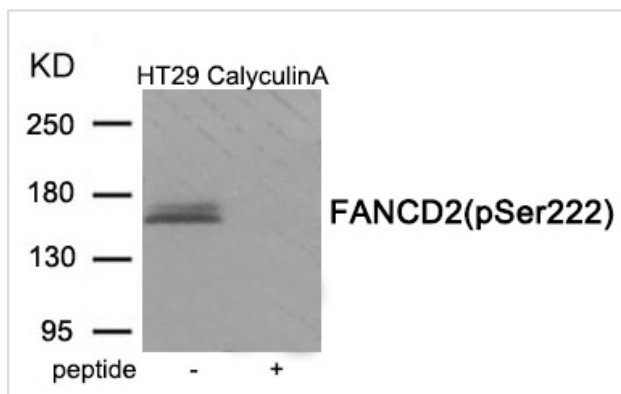
## Description

Product Name	FANCD2 (Phospho-Ser222) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of FANCD2 only when phosphorylated at serine 222.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 222 (G-D-S(p)-Q-H) derived from Human FANCD2.
Target Name	FANCD2
Modification	Phospho
Other Names	DKFZp762A223; FA-D2; FA4; FACD; Fanconi anemia
Accession No.	Swiss-Prot#: Q9BXW9; NCBI Gene#: 2177; NCBI Protein#: NP_001018125.1
SDS-PAGE MW	166kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

## Application Details

Western blotting: 1:500~1:1000

## Images



Western blot analysis of extracts from HT29 cells treated with CalyculinA using Phospho-FANCD2 (Ser222) antibody #11965. The lane on the right is treated with the antigen-specific peptide.

## Background

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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.

Ho GP, Margossian S, Taniguchi T, D'Andrea AD (2006) Mol Cell Biol 26, 7005-15.

Nakanishi K, et al. (2002) Nat Cell Biol 4, 913-20.

Taniguchi T, et al. (2002) Cell 109, 459-72 .

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.