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anti-FANCD2 antibody (pSer222)





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Quantity:	100 μL
Target:	FANCD2
Binding Specificity:	pSer222
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FANCD2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Peptide sequence around phosphorylation site of serine 222 (G-D-S(p)-Q-H) derived from Human FANCD2.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
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 chromatogramphy usi

Target Details

Target:	FANCD2
Alternative Name:	FANCD2 (FANCD2 Products)

Target Details

Background:

Background:

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.

Aliases: DKFZp762A223 antibody, FA 4 antibody, FA D2 antibody, FA4 antibody, FAC D2 antibody, FACD 2 antibody, FACD 2 antibody, FACD 2 antibody, FANCD 2 antibody, FANCD antibody, FANCD antibody, FANCD 2 antibody, FANCD 2 antibody, FANCD 2 antibody, FANCD 2 antibody, FANCD 3 antibody, FANCD 2 antibody, FANCONI ANEMIA COMPLEMENTATION GROUP D antibody, Fanconi anemia complementation group D2 antibody, Fanconi anemia group D2 protein antibody, FANCONI PANCYTOPENIA TYPE 4 antibody, FLJ23826 antibody, OTTHUMP00000158853 antibody, OTTHUMP00000207925 antibody, Protein FACD2 antibody, Type 4 Fanconi pancytopenia antibody

UniProt:

Q9BXW9

Pathways:

DNA Damage Repair

Application Details

Application Notes: WB:1:500-1:1000,

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl,

0.02 % sodium azide and 50 % glycerol.

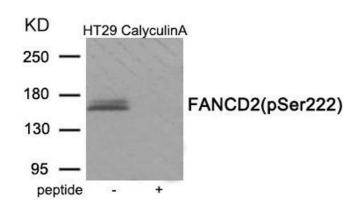
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Western blot analysis of extracts from HT29 cells treated with CalyculinA using Phospho-FANCD2 (Ser222) antibody. The lane on the right is treated with the antigenspecific peptide.