Datasheet for ABIN966128

anti-FANCD2 antibody (Isoform B, ubiquitinated)

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Overview

Quantity:	0.1 mg
Target:	FANCD2
Binding Specificity:	Isoform B, ubiquitinated
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FANCD2 antibody is un-conjugated
Application:	Immunohistochemistry (IHC)

Product Details

Immunogen:	Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of human FANCD2 (Fanconi anemia complementation group D2 isoform b)
Characteristics:	Note: At K561 amino acid residue with the ubiquitin c-terminal 7-mer peptide bound: CLRLRGG

Target Details

Target:	FANCD2
Alternative Name:	FANCD2 (FANCD2 Products)
Background:	The Fanconi anemia complementation group (FANC) currently includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, FANCI, FANCJ (also called BRIP1), FANCL, FANCM and FANCN (also called PALB2). Fanconi anemia is a genetically heterogeneous recessive disorder characterized by cytogenetic instability, hypersensitivity to

Target Details

	DNA crosslinking agents, increased chromosomal breakage, and defective DNA repair. The members of the Fanconi anemia complementation group do not share sequence similarity, they are related by their assembly into a common nuclear protein complex. This gene encodes the protein for complementation group D2. This protein is monoubiquinated in response to DNA damage, resulting in its localization to nuclear foci with other proteins (BRCA1 AND BRCA2) involved in homologydirected DNA repair. Alternative splicing results in two transcript variants encoding different isoforms.
Pathways:	DNA Damage Repair

Application Details

Restrictions:	For Research Use only

Publications

Product cited in:	Kweekel, Antonini, Nortier, Punt, Gelderblom, Guchelaar: "Explorative study to identify novel candidate genes related to oxaliplatin efficacy and toxicity using a DNA repair array." in: **British journal of cancer**, Vol. 101, Issue 2, pp. 357-62, (2009) (PubMed). Singh, Bakker, Agarwal, Jansen, Grassman, Godthelp, Ali, Du, Rooimans, Fan, Wahengbam, Steltenpool, Andreassen, Williams, Joenje, de Winter, Meetei: "Impaired FANCD2 monoubiquitination and hypersensitivity to camptothecin uniquely characterize Fanconi anemia complementation group M." in: **Blood**, Vol. 114, Issue 1, pp. 174-80, (2009) (PubMed). Kuhnert, Kachnic, Li, Purschke, Gheorghiu, Lee, Held, Willers: "FANCD2-deficient human fibroblasts are hypersensitive to ionising radiation at oxygen concentrations of 0% and 3% but not under normoxic conditions." in: **International journal of radiation biology**, Vol. 85, Issue 6, pp. 523-31, (2009) (PubMed). Chan, Palmai-Pallag, Ying, Hickson: "Replication stress induces sister-chromatid bridging at fragile site loci in mitosis." in: **Nature cell biology**, Vol. 11, Issue 6, pp. 753-60, (2009) (PubMed).