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Datasheet for ABIN7152567

anti-FAN1 antibody (AA 167-373) (Biotin)

Overview

Quantity:	100 µg
Target:	FAN1
Binding Specificity:	AA 167-373
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FAN1 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Fanconi-associated nuclease 1 protein (167-373AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	FAN1
Alternative Name:	FAN1 (FAN1 Products)
Background:	Background: Nuclease required for the repair of DNA interstrand cross-links (ICL) recruited at sites of DNA damage by monoubiquitinated FANCD2. Specifically involved in repair of ICL-

Target Details

induced DNA breaks by being required for efficient homologous recombination, probably in the resolution of homologous recombination intermediates (PubMed:20603015, PubMed:20603016, PubMed:20603073, PubMed:20671156, PubMed:24981866, PubMed:25430771). Not involved in DNA double-strand breaks resection (PubMed:20603015, PubMed:20603016). Acts as a 5'-3' exonuclease that anchors at a cut end of DNA and cleaves DNA successively at every third nucleotide, allowing to excise an ICL from one strand through flanking incisions. Probably keeps excising with 3'-flap annealing until it reaches and unhooks the ICL (PubMed:25430771). Acts at sites that have a 5'-terminal phosphate anchor at a nick or a 1- or 2-nucleotide flap and is augmented by a 3' flap (PubMed:25430771). Also has endonuclease activity toward 5'-flaps (PubMed:20603015, PubMed:20603016, PubMed:24981866).

Aliases: 6030441H18Rik antibody, Coiled coil domain containing protein MTMR15 antibody, DKFZp451H236 antibody, DKFZp686K16147 antibody, FAN1 antibody, FAN1_HUMAN antibody, FANCD2 and FANCI associated nuclease 1 antibody, FANCD2/FANCI associated nuclease 1 antibody, FANCD2/FANCI-associated nuclease 1 antibody, Fanconi associated nuclease 1 antibody, Fanconi-associated nuclease 1 antibody, hFAN1 antibody, KIAA1018 antibody, KMIN antibody, MTMR 15 antibody, MTMR15 antibody, Myotubularin related protein 15 antibody, Myotubularin-related protein 15 antibody

UniProt: [Q9Y2M0](#)

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.