

Rabbit anti-Human FAN1 Polyclonal Antibody | anti-FAN1 antibody

FAN1 Antibody

CATALOG # AAA234812	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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PRODUCT SYNONYMS

FAN1; Polyclonal Antibody; FAN1 Antibody; Fanconi-associated nuclease 1; s; FANCD2/FANCI-associated nuclease 13; FAN11 Publication; anti-FAN1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	533
Applicable Applications for anti-FAN1 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant Human Fanconi-associated nuclease 1 protein (167-373AA)
Conjugation	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



IHC (Immunohistochemistry)

IHC image of AAA234812 diluted at 1:300 and staining in paraffin-embedded human ovarian cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



WB (Western Blot)

Western BlotPositive WB detected in: PC3 whole cell lysateAll lanes: FAN1 antibody at 5.3ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 115, 60 KDaObserved band size: 115 KDa

ADDITIONAL INFORMATION

Related Product Information for anti-FAN1 antibody	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-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).
Product Categories/Family for anti-FAN1 antibody	Epigenetics and Nuclear Signaling

NCBI AND UNIPROT INFORMATION

NCBI GI #	226246525
NCBI GeneID	22909
NCBI Accession #	NP_001139566.1
NCBI GenBank Nucleotide #	NM_001146094.1
UniProt Accession #	Q9Y2M0; Q86WU8; A8K4M2
Molecular Weight	59,498 Da
NCBI Official Full Name	fanconi-associated nuclease 1 isoform b
NCBI Official Synonym Full Names	FANCD2 and FANCI associated nuclease 1
NCBI Official Symbol	FAN1
NCBI Official Synonym Symbols	KMIN; hFAN1; MTMR15; KIAA1018
NCBI Protein Information	fanconi-associated nuclease 1
UniProt Protein Name	Fanconi-associated nuclease 1
UniProt Gene Name	FAN1
UniProt Synonym Gene Names	hFAN1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/fan1-antibody-immunohistochemistry-western-blot-elisa/234812>