

Datasheet for ABIN5002444

**anti-FAN1 antibody (AA 400-450) (AbBy Fluor® 750)**[Go to Product page](#)

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | FAN1   |
| Binding Specificity: | AA 400-450   |
| Reactivity:          | Human, Mouse, Rat  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This FAN1 antibody is conjugated to AbBy Fluor® 750      |
| Application:         | Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

## Product Details

|               |  |
|---------------|--|
| Immunogen:    | KLH conjugated synthetic peptide derived from human FAN1 |
| Isotype:      | IgG  |
| Purification: | Purified by Protein A.                                   |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | FAN1  |
| Alternative Name: | FAN1 ( <a href="#">FAN1 Products</a> )  |
| 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-induced DNA breaks by being required for efficient homologous recombination, probably in the resolution of homologous recombination intermediates (PubMed:20603015, PubMed:20603016, |

## Target Details

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).

Subcellular location: Nucleus

Synonyms: KMIN, hFAN1, MTMR15, KIAA1018, Fanconi-associated nuclease 1, FANCD2/FANCI-associated nuclease 1, Myotubularin-related protein 15, FAN1

|           |                                   |
|-----------|-----------------------------------|
| Gene ID:  | 22909                             |
| UniProt:  | <a href="#">Q9Y2M0</a>            |
| Pathways: | <a href="#">DNA Damage Repair</a> |

## Application Details

|                    |                       |
|--------------------|-----------------------|
| Application Notes: | IF(IHC-P) 1:50-200    |
| Restrictions:      | For Research Use only |

## Handling

|                  |  |
|------------------|--|
| Format:          | Liquid   |
| Concentration:   | 1 µg/µL  |
| Buffer:          | Aqueous buffered solution containing 1 % BSA, 50 % glycerol and 0.09 % sodium azide. |
| Storage:         | 4 °C   |
| Storage Comment: | Store at 4°C   |
| Expiry Date:     | 12 months  |