

## Anti-FAN1 Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Dog,Pig,Cow,Horse,Rabbit,Zebrafish,Sheep,GPV)
Molecular Weight:	Theoretical: 114 kDa. Actual: 130 kDa.
Purification:	Protein A purified

## Applications

Verified Activity:	<ol style="list-style-type: none"><li>1. Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (FAN1) Polyclonal Antibody, Unconjugated (TMAB-05892) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.</li><li>2. Paraformaldehyde-fixed, paraffin embedded (mouse lung tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (FAN1) Polyclonal Antibody, Unconjugated (TMAB-05892) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.</li><li>3. 25 µg total protein per lane of various lysates (see on figure) probed with FAN1 polyclonal antibody, unconjugated (TMAB-05892) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.</li></ol>
Application:	IHC-P,IHC-Fr,IF,WB
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; WB: 1:500-2000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human FAN1
Antigen Species:	Human
Gene ID:	22909
Uniprot ID:	Q9Y2M0

## Research Background

Nuclease required for maintenance of chromosomal stability. Plays a key role in DNA repair of DNA interstrand cross-links (ICL) by being recruited to sites of DNA damage by monoubiquitinated FANCD2. Specifically involved in repair of ICL-induced DNA breaks by being required for efficient homologous recombination, possibly in the resolution of homologous recombination intermediates. Not involved in DNA double-strand breaks resection. Has both endonuclease activity toward 5'-flaps and 5'-exonuclease activity: may act in concert with the 3'-flap-specific

enzymes to unhook the ICL by cleaving the lagging-strand template.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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