

Datasheet: AHP837

Description:	RABBIT ANTI HUMAN FEN1
Specificity:	FEN1
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation	■			2ug/mg protein - 10ug/mg protein
Western Blotting	■			1/2000 - 1/10000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid

Antiserum Preparation Antisera to human FEN1 were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution	TRIS-citrate/Phosphate buffered saline
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Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
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Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
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Immunogen	Synthetic peptide corresponding to a region within the N terminal domain of human FEN1 (locus link ID 2237)
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External Database Links	UniProt: P39748 Related reagents
	Entrez Gene: 2237 FEN1 Related reagents
Synonyms	RAD2
Specificity	<p>Rabbit anti Human FEN1 antibody recognizes human Flap endonuclease 1 also known as Flap structure-specific endonuclease, FEN1, Maturation factor 1 or DNase IV. FEN1 is a 380 amino acid ~45 kDa member of the FEN1 sub family of XPG/RAD2 endonucleases which has an important role in lagging strand DNA synthesis and base excision repair (Kim et al. 1998). It is hypothesised that FEN1 may play a role in the inhibition of triplet repeat expansion (Vallur and Maizels 2010).</p> <p>Two isoforms of FEN1 are generated by alternative initiation, isoform 1 against which rabbit anti human FEN1 antibody is generated and a truncated isoform FENMIT, lacking the N-terminal region and having a mitochondrial distribution, FENMIT also lacks DNAase activity (Kazak et al. 2013). Initial results suggest that rabbit anti human FEN1 antibody does not recognize the truncated form of human FEN1.</p> <p>Fen1 is expressed in the nucleus of a wide variety of organ structures notably in those of the hematopoietic system including spleen, lymph nodes and spleen. Rabbit anti human FEN1 antibody recognizes a band of ~45 kDa in whole cell lysates of HeLa and 293T by western blotting and has successfully been used for immunoprecipitation of FEN1 from HeLa cell lysates.</p>
Western Blotting	AHP837 detects a band of approximately 42kD in HeLa cell lysates.
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10064 available at: 10064: https://www.bio-rad-antibodies.com/uploads/MSDS/10064.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin , FITC , HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR36...)	DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800

Recommended Useful Reagents

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