

Datasheet: AHP837

BATCH NUMBER 250215

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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

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
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Synthetic peptide corresponding to a region within the N terminal domain of human FEN1 (locus link ID 2237)
External Database Links	<p>UniProt: P39748 Related reagents</p> <p>Entrez Gene: 2237 FEN1 Related reagents</p>
Synonyms	RAD2
RRID	AB_2102797
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.
Guarantee	12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10064 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP837>
10064

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
'M364329:200529'

Printed on 25 Mar 2023

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)