

## Datasheet: AHP837

**BATCH NUMBER 250215**

<b>Description:</b>	RABBIT ANTI HUMAN FEN1
<b>Specificity:</b>	FEN1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Mouse</p> <p><b>N.B.</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.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	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 <sub>3</sub> )
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><b>UniProt:</b>  <a href="#">P39748</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2237</a>    FEN1    <a href="#">Related reagents</a></p>
Synonyms	RAD2
RRID	AB_2102797
Specificity	<p><b>Rabbit anti Human FEN1 antibody</b> 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 (<a href="#">Kim <i>et al.</i> 1998</a>). It is hypothesised that FEN1 may play a role in the inhibition of triplet repeat expansion (<a href="#">Vallur and Maizels 2010</a>).</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 (<a href="#">Kazak <i>et al.</i> 2013</a>). 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	<p>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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

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**Regulatory**      For research purposes only

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## 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 \(STAR209P\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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'

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