abcam

Product datasheet

Anti-FANCI antibody ab243420

3 Images

Overview			
Product name	Anti-FANCI antibody		
Description	Rabbit polyclonal to FANCI		
Host species	Rabbit		
Tested applications	Suitable for: IHC-P		
Species reactivity	Reacts with: Human		
Immunogen	Recombinant fragment corresponding to Human FANCI aa 100-300. Database link: Q9NVI1		
	Run BLAST with Run BLAST with		
Positive control	IHC-P: Human testis, rectum and cerebral cortex tissue.		
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.		
	If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As		
Properties			
Form	Liquid		

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
lsotype	lgG

Applications

The Abpromise guarantee

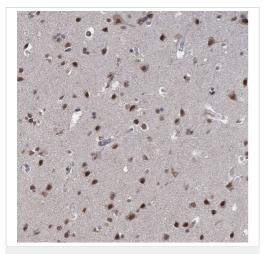
Our <u>Abpromise guarantee</u> covers the use of ab243420 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

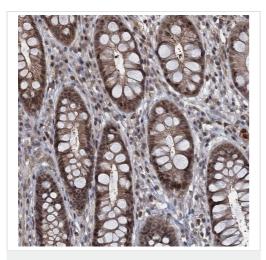
Application	Abreviews	Notes
IHC-P		1/500 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target	
Function	Required for maintenance of chromosomal stability. Involved in the repair of DNA double-strand breaks by homologous recombination and in the repair of DNA cross-links. Participates in S phase and G2 phase checkpoint activation upon DNA damage. Promotes FANCD2 ubiquitination and recruitment to DNA repair sites.
Involvement in disease	Defects in FANCI are a cause of Fanconi anemia complementation group I (FANCI) [MIM:609053]. It is a disorder affecting all bone marrow elements and resulting in anemia, leukopenia and thrombopenia. It is associated with cardiac, renal and limb malformations, dermal pigmentary changes, and a predisposition to the development of malignancies. At the cellular level it is associated with hypersensitivity to DNA-damaging agents, chromosomal instability (increased chromosome breakage) and defective DNA repair.
Domain	The C-terminal 30 residues are probably required for function in DNA repair.
Post-translational modifications	Monoubiquitinated on Lys-523 during S phase and upon genotoxic stress. Deubiquitinated by USP1 as cells enter G2/M, or once DNA repair is completed. Monoubiquitination requires the FANCA-FANCB-FANCC-FANCE-FANCF-FANCG-FANCM complex. Ubiquitination is required for binding to chromatin, DNA repair, and normal cell cycle progression. Phosphorylated in response to DNA damage by ATM and/or ATR.
Cellular localization	Nucleus. Concentrates in nuclear foci upon genotoxic stress.

Images

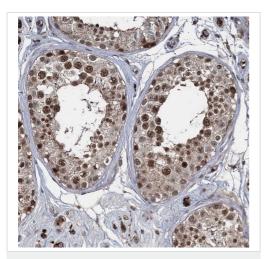


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-FANCI antibody (ab243420) Formalin-fixed, paraffin-embedded human cerebral cortex tissue stained for FANCI using ab243420 at 1/500 dilution in immunohistochemical analysis.



Formalin-fixed, paraffin-embedded human rectum tissue stained for FANCI using ab243420 at 1/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-FANCI antibody (ab243420)



Formalin-fixed, paraffin-embedded human testis tissue stained for FANCI using ab243420 at 1/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-FANCI antibody (ab243420)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <u>https://www.abcam.com/abpromise</u> or contact our technical team.

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