

Product datasheet

Anti-FANCB antibody [EPR15513] ab186729

Recombinant RabMAb

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Overview

Product name	Anti-FANCB antibody [EPR15513]
Description	Rabbit monoclonal [EPR15513] to FANCB
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), IHC-P, IP, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HeLa, A549, 293T, U87-MG, C6, Raw264.7 and PC12 cell lysates; Human endometrial adenocarcinoma tissue; 293 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15513
Isotype	IgG

Applications

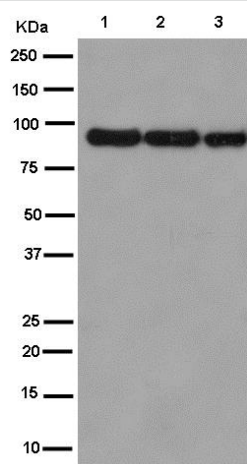
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab186729 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/120. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/30 - 1/50.
WB		1/1000 - 1/10000. Detects a band of approximately 98 kDa (predicted molecular weight: 98 kDa).

Target

Function	DNA repair protein required for FANCD2 ubiquitination.
Involvement in disease	<p>Defects in FANCB are the cause of Fanconi anemia complementation group B (FANCB) [MIM:300514]. 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.</p> <p>Defects in FANCB are the cause of X-linked VACTERL-H (XVACTERL-H) [MIM:314390]; also known as X-linked VACTERL association with hydrocephalus syndrome. VACTERL is an acronym for vertebral anomalies, anal atresia, cardiac malformations, tracheoesophageal fistula, renal anomalies (urethral atresia with hydronephrosis), and limb anomalies (hexadactyly, humeral hypoplasia, radial aplasia, and proximally placed thumb). Some cases of VACTERL-H are associated with increased chromosome breakage and rearrangement.</p>
Cellular localization	Nucleus.

Images



Western blot - Anti-FANCB antibody [EPR15513]
(ab186729)

All lanes : Anti-FANCB antibody [EPR15513] (ab186729) at 1/1000 dilution

Lane 1 : C6 cell lysate

Lane 2 : Raw264.7 cell lysate

Lane 3 : PC12 cell lysate

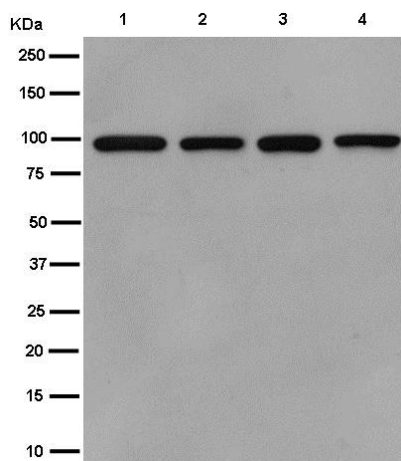
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 98 kDa

Observed band size: 98 kDa



Western blot - Anti-FANCB antibody [EPR15513]
(ab186729)

All lanes : Anti-FANCB antibody [EPR15513] (ab186729)

Lane 1 : HeLa cell lysate

Lane 2 : A549 cell lysate

Lane 3 : 293T cell lysate

Lane 4 : U87-MG cell lysate

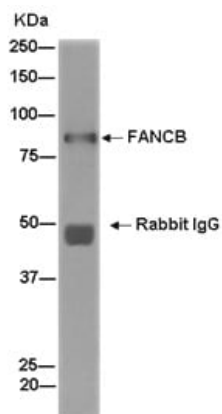
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 98 kDa

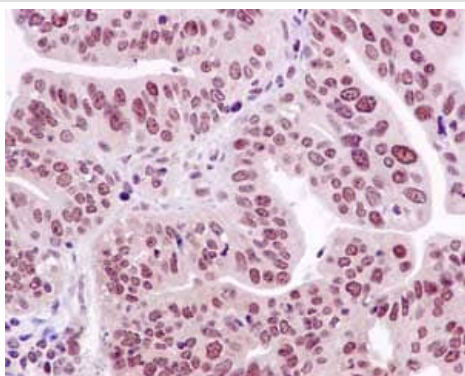
Observed band size: 98 kDa



Immunoprecipitation - Anti-FANCB antibody
[EPR15513] (ab186729)

Western blot analysis of FANCB in 293T cell lysate immunoprecipitated with ab186729 at 1/50 dilution

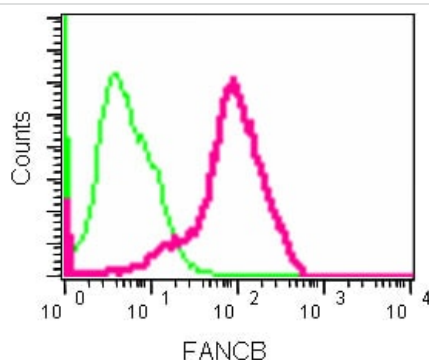
Secondary antibody: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FANCB antibody
[EPR15513] (ab186729)

Immunohistochemical analysis of paraffin-embedded Human endometrial adenocarcinoma tissue labeling FANCB with ab186729 at 1/500 dilution. A Ready to use HRP Polymer for Rabbit IgG (prediluted) was used as secondary. Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-FANCB antibody [EPR15513] (ab186729)

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed 293 cells labeling FANCB with ab186729 at 1/120 dilution, compared to a Rabbit monoclonal IgG isotype control. A Goat anti rabbit IgG (FITC) at 1/150 dilution was used as secondary antibody.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-FANCB antibody [EPR15513] (ab186729)

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

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