abcam

Product datasheet

Anti-Rad51D antibody [EPR16205] ab202063

Recombinant RabMAb

3 References 7 Images

Overview

Product name	Anti-Rad51D antibody [EPR16205]
Description	Rabbit monoclonal [EPR16205] to Rad51D
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB, IP
Species reactivity	**Reacts with:** Rat, Human
Immunogen	Recombinant fragment within Human Rad51D aa 1-100. The exact sequence is proprietary. Database link: O75771
Positive control	WB: HEK-293, HeLa, Jurkat and C6 cell lysates; Rat kidney lysate. IHC-P: Human lung carcinoma, Human tonsil, Human small intestine and Rat kidney tissues. ICC/IF: A549 and HeLa cells. IP: HeLa whole cell lysate.
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents. This product is a recombinant rabbit monoclonal antibody.

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	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16205
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab202063** 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		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Detects a band of approximately 35 kDa (predicted molecular weight: 35 kDa).
IP		1/50.

Target

Function

Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA breaks arising during DNA replication or induced by DNA-damaging agents. The BCDX2 complex binds single-stranded DNA, single-stranded gaps in duplex DNA and specifically to nicks in duplex DNA.

Tissue specificity

Expressed in colon, prostate, spleen, testis, ovary, thymus and small intestine. Weakly expressed in leukocytes.

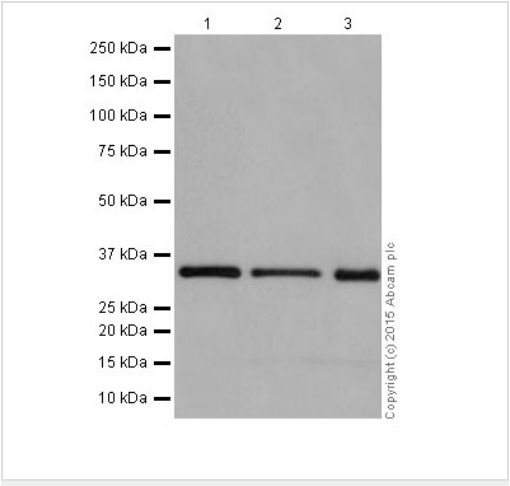
Sequence similarities

Belongs to the RecA family. RAD51 subfamily.

Cellular localization

Nucleus.

Images



Western blot - Anti-Rad51D antibody [EPR16205] (ab202063)

All lanes : Anti-Rad51D antibody [EPR16205] (ab202063) at 1/1000 dilution

Lane 1 : HEK-293 (Human epithelial cells from embryonic kidney) cell lysate
Lane 2 : HeLa (Human epithelial cells from cervix adenocarcinoma) cell lysate
Lane 3 : Jurkat (Human T cell leukemia cells from peripheral blood) cell lysate

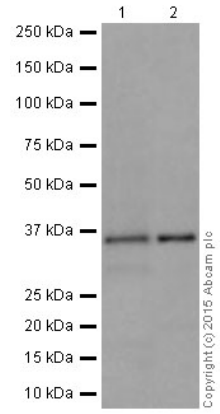
Lysates/proteins at 20 µg per lane.

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

Predicted band size: 35 kDa
Observed band size: 35 kDa

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Rad51D antibody [EPR16205] (ab202063)

All lanes : Anti-Rad51D antibody [EPR16205] (ab202063) at 1/1000 dilution

Lane 1 : Rat kidney lysate
Lane 2 : C6 (Rat glial tumor cells) cell lysate

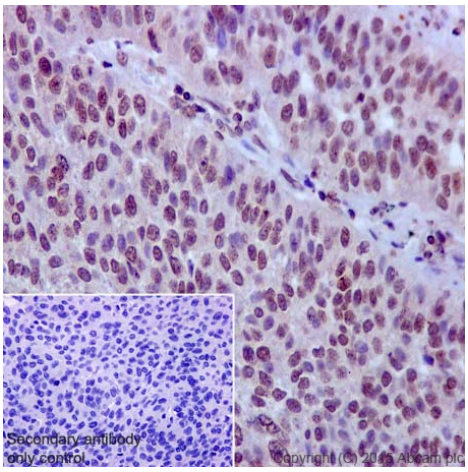
Lysates/proteins at 10 µg per lane.

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

Predicted band size: 35 kDa
Observed band size: 35 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

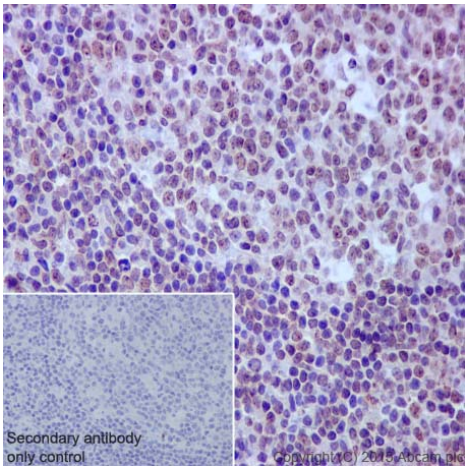


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rad51D antibody [EPR16205] (ab202063)

Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue labeling Rad51D with ab202063 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) secondary antibody at 1/500 dilution. Nuclear staining on Human lung carcinoma tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



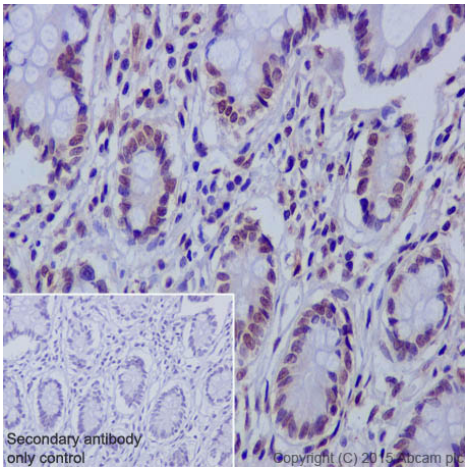
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rad51D antibody [EPR16205] (ab202063)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling Rad51D with ab202063 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) secondary antibody at 1/500 dilution.

Nuclear staining on Human tonsil tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



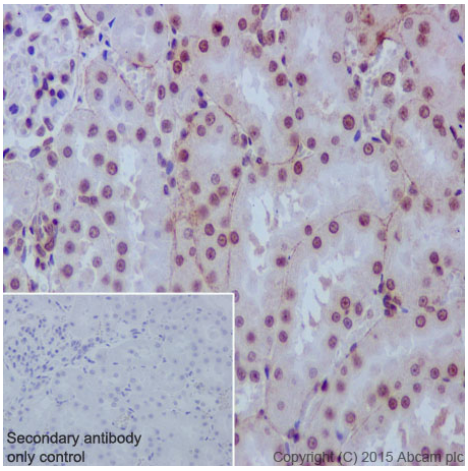
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rad51D antibody [EPR16205] (ab202063)

Immunohistochemical analysis of paraffin-embedded Human small intestine tissue labeling Rad51D with ab202063 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) secondary antibody at 1/500 dilution.

Nuclear staining on Human small intestine tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



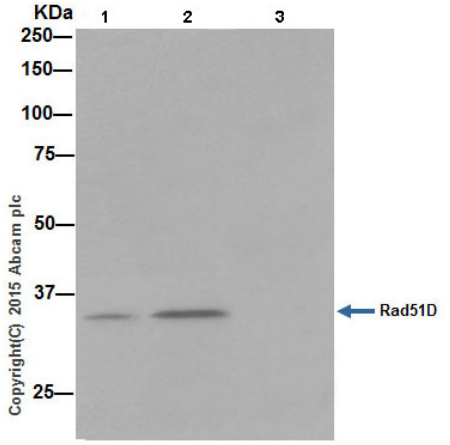
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rad51D antibody [EPR16205] (ab202063)

Immunohistochemical analysis of paraffin-embedded Rat kidney tissue labeling Rad51D with ab202063 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) secondary antibody at 1/500 dilution.

Nuclear staining on rat kidney tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Rad51D antibody [EPR16205] (ab202063)

Rad51D was immunoprecipitated from 1mg of HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate with ab202063 at 1/50 dilution.

Western blot was performed from the immunoprecipitate using ab202063 at 1/1000 dilution.

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG was used as secondary antibody at 1/1500 dilution.

Lane 1: HeLa whole cell lysate 10 µg (Input).

Lane 2: ab202063 IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab202063 in HeLa whole cell lysate.
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 30 seconds.

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