

# Anti-Rad51 antibody - BSA and Azide free ab88572

★★★★★ [13 Abreviews](#) [51 References](#) [画像数 8](#)

## 製品の概要

製品名	Anti-Rad51 antibody - BSA and Azide free
製品の詳細	Mouse polyclonal to Rad51 - BSA and Azide free
由来種	Mouse
アプリケーション	<b>適用あり:</b> WB, IHC-P, ICC/IF
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Recombinant full length protein within Human Rad51 aa 1-350. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please <b><a href="#">contact</a></b> our Scientific Support team to discuss your requirements.
ポジティブ・コントロール	WB: lysate from PC-12, Raw 264.7, Jurkat, NIH 3T3 cells or Human colon tissue. IHC: Human testis. ICC/IF: HeLa cells.
特記事項	<p>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.</p> <p>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&amp;As</p>

## 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.4 Constituent: 100% PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

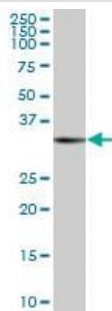
## アプリケーション

**The Abpromise guarantee** Abpromise保証は、次のテスト済みアプリケーションにおけるab88572の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (5)	Use a concentration of 1 µg/ml. Predicted molecular weight: 37 kDa.
IHC-P	★★★★★ (1)	Use a concentration of 3 µg/ml. Antigen retrieval is not essential but may optimise staining. The microwave method is recommended.
ICC/IF	★★★★★ (4)	Use a concentration of 10 µg/ml.

## ターゲット情報

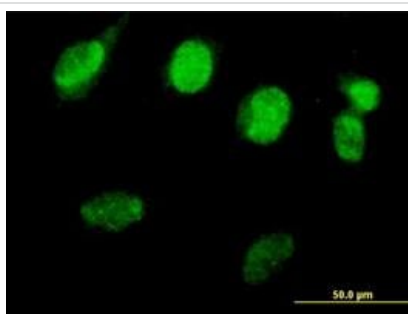
機能	Plays an important role in homologous strand exchange, a key step in DNA repair through homologous recombination. Binds to single and double-stranded DNA and exhibits DNA-dependent ATPase activity. Catalyzes the recognition of homology and strand exchange between homologous DNA partners to form a joint molecule between a processed DNA break and the repair template. Binds to single-stranded DNA in an ATP-dependent manner to form nucleoprotein filaments which are essential for the homology search and strand exchange (PubMed:26681308). Part of a PALB2-scaffolded HR complex containing BRCA2 and RAD51C and which is thought to play a role in DNA repair by HR. Plays a role in regulating mitochondrial DNA copy number under conditions of oxidative stress in the presence of RAD51C and XRCC3.
組織特異性	Highly expressed in testis and thymus, followed by small intestine, placenta, colon, pancreas and ovary. Weakly expressed in breast.
関連疾患	Breast cancer Mirror movements 2 Defects in RAD51 are found in a patient with microcephaly, mental retardation without bone marrow failure and pediatric cancers.
配列類似性	Belongs to the RecA family. RAD51 subfamily. Contains 1 HhH domain.
ドメイン	The nuclear localization may reside in the C-terminus (between 259 and 339 AA).
翻訳後修飾	Ubiquitinated by the SCF(FBXO18) E3 ubiquitin ligase complex, regulating RAD51 subcellular location and preventing its association with DNA. Phosphorylated. Phosphorylation of Thr-309 by CHEK1 may enhance association with chromatin at sites of DNA damage and promote DNA repair by homologous recombination. Phosphorylation by ABL1 inhibits function.
細胞内局在	Nucleus. Cytoplasm. Cytoplasm, perinuclear region. Mitochondrion matrix. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Colocalizes with RAD51AP1 and RPA2 to multiple nuclear foci upon induction of DNA damage. DNA damage induces an increase in nuclear levels. Together with FIGL1, redistributed in discrete nuclear DNA damage-induced foci after ionizing radiation (IR) or camptothecin (CPT) treatment. Accumulated at sites of DNA damage in a SPIDR-dependent manner.



Western blot - Anti-Rad51 antibody - BSA and Azide free (ab88572)

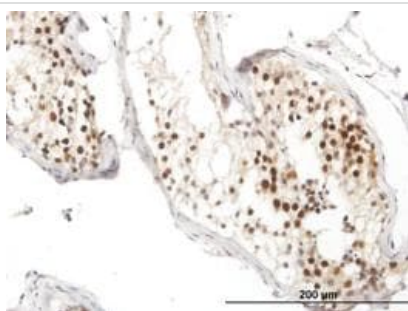
Anti-Rad51 antibody - BSA and Azide free (ab88572) at 1  $\mu$ g/ml +  
Human colon lysate at 50  $\mu$ g

**Predicted band size:** 37 kDa



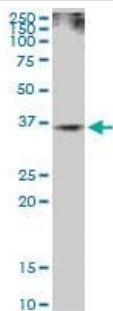
Immunocytochemistry/ Immunofluorescence - Anti-Rad51 antibody - BSA and Azide free (ab88572)

Immunofluorescent staining of Rad51 in HeLa cells using ab88572  
at 10  $\mu$ g/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rad51 antibody - BSA and Azide free (ab88572)

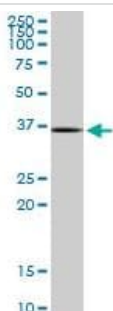
ab88572 at 3 $\mu$ g/ml staining Rad51 in formalin-fixed, paraffin-embedded Human testis tissue.



Western blot - Anti-Rad51 antibody - BSA and Azide free (ab88572)

Anti-Rad51 antibody - BSA and Azide free (ab88572) at 1  $\mu$ g/ml +  
Rat PC-12 cell lysate at 50  $\mu$ g

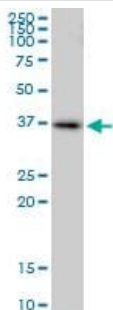
**Predicted band size:** 37 kDa



Western blot - Anti-Rad51 antibody - BSA and Azide free (ab88572)

Anti-Rad51 antibody - BSA and Azide free (ab88572) at 1  $\mu$ g/ml +  
Raw 264.7 cell lysate (Mouse) at 50  $\mu$ g

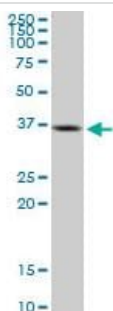
**Predicted band size:** 37 kDa



Western blot - Anti-Rad51 antibody - BSA and Azide free (ab88572)

Anti-Rad51 antibody - BSA and Azide free (ab88572) at 1  $\mu$ g/ml +  
Human Jurkat cell lysate at 50  $\mu$ g

**Predicted band size:** 37 kDa



Western blot - Anti-Rad51 antibody - BSA and Azide free (ab88572)

Anti-Rad51 antibody - BSA and Azide free (ab88572) at 1  $\mu$ g/ml +  
NIH 3T3 cell lysate (Mouse) at 50  $\mu$ g

**Predicted band size:** 37 kDa



**All lanes :** Anti-Rad51 antibody - BSA and Azide free (ab88572) at 1 µg/ml

**Lane 1 :** transfected 293T cell lysate

**Lane 2 :** non transfected lysate

Lysates/proteins at 25 µg per lane.

**Predicted band size:** 37 kDa

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