abcam

Product datasheet

Anti-XRCC1 antibody [EPR4389(2)] - BSA and Azide free ab226150

Recombinant RabMAb

7 Images

Overview

Product name	Anti-XRCC1 antibody [EPR4389(2)] - BSA and Azide free
Description	Rabbit monoclonal [EPR4389(2)] to XRCC1 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, IHC-P **Unsuitable for:** Flow Cyt or IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, A375, Saos-2, PC-12 and NIH/3T3 cell lysates. Mouse brain and kidney tissue lysate IHC-P: Human testis tissue. ICC/IF: HeLa, PC-12 and NIH/3T3 cells.
General notes	ab226150 is the carrier-free version of **ab134056**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4389(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab226150 in the following tested applications.

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

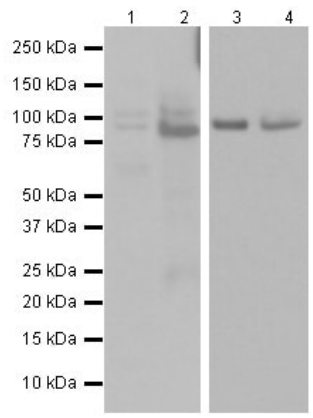
Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 69 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt or IP.

Target

Function	Corrects defective DNA strand-break repair and sister chromatid exchange following treatment with ionizing radiation and alkylating agents.
Sequence similarities	Contains 2 BRCT domains.
Post-translational modifications	Phosphorylation of Ser-371 causes dimer dissociation. Phosphorylation by CK2 promotes interaction with APTX and APLF. Sumoylated.
Cellular localization	Nucleus. Accumulates at sites of DNA damage.

Images



Western blot - Anti-XRCC1 antibody [EPR4389(2)] - BSA and Azide free (ab226150)

All lanes : Anti-XRCC1 antibody [EPR4389(2)] (**ab134056**) at 1/2000 dilution (purified)

Lane 1 : Mouse brain tissue lysate
Lane 2 : Mouse kidney lysate
Lane 3 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate
Lane 4 : NIH/3T3(Mouse embryonic fibroblast) whole cell lysate

Lysates/proteins at 20 µg per lane.

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

Predicted band size: 69 kDa
Observed band size: 85 kDa

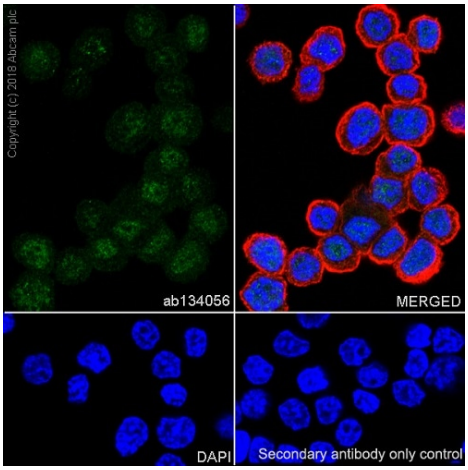
This data was developed using **ab134056**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time:

Lanes 1-2: 3 minutes.

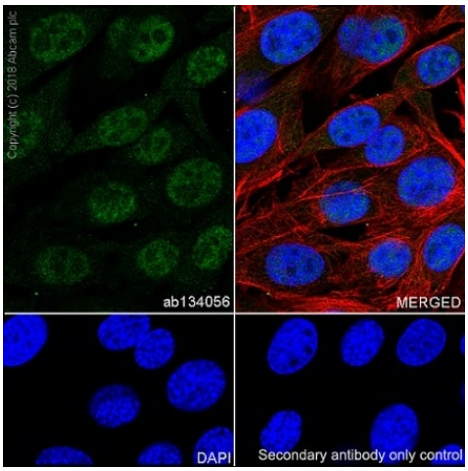
Lanes 3-4: 20 seconds.



Immunocytochemistry/ Immunofluorescence - Anti-XRCC1 antibody [EPR4389(2)] - BSA and Azide free (ab226150)

This data was developed using **ab134056**, the same antibody clone in a different buffer formulation.

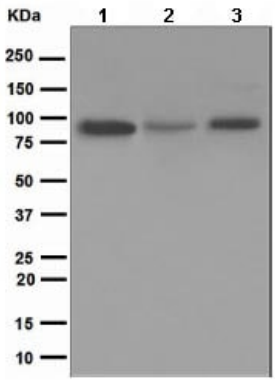
Immunocytochemistry/Immunofluorescence analysis of PC-12(Rat adrenal gland pheochromocytoma) labelling with **ab134056** at a dilution of 1/50 dilution (4.66 µg/mL). Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) (1/1000 dilution (2 µg/mL)) was used as the secondary antibody. The cells were co-stained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Nuclei counterstained with DAPI (blue). Control: PBS instead of the primary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-XRCC1 antibody [EPR4389(2)] - BSA and Azide free (ab226150)

This data was developed using **ab134056**, the same antibody clone in a different buffer formulation.

Immunocytochemistry/Immunofluorescence analysis of NIH/3T3(Mouse embryonic fibroblast) labelling with **ab134056** at a dilution of 1/50 (4.66 µg/mL). Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/1000 dilution (2 µg/mL)) was used as the secondary antibody. The cells were co-stained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Nuclei counterstained with DAPI (blue). Control: PBS instead of the primary antibody.



Western blot - Anti-XRCC1 antibody [EPR4389(2)] - BSA and Azide free (ab226150)

All lanes : Anti-XRCC1 antibody [EPR4389(2)] (**ab134056**) at 1/1000 dilution

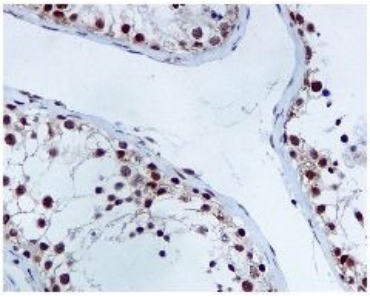
Lane 1 : HeLa cell lysate
Lane 2 : A375 cell lysate
Lane 3 : Saos-2 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

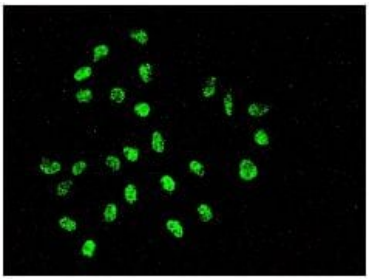
Predicted band size: 69 kDa

This data was developed using **ab134056**, the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-XRCC1 antibody [EPR4389(2)] - BSA and Azide free (ab226150)

This data was developed using **ab134056**, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin-embedded Human testis tissue labelling XRCC1 with **ab134056** at 1/250 dilution. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-XRCC1 antibody [EPR4389(2)] - BSA and Azide free (ab226150)

This data was developed using **ab134056**, the same antibody clone in a different buffer formulation.Immunofluorescent analysis of HeLa cells labelling XRCC1 with **ab134056** at 1/100 dilution.

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