abcam

ab8152

Anti-BrdU antibody [IIB5]

Anti-BrdU antibody [IIB5] (ab8152) is a mouse monoclonal antibody detecting BrdU in **Flow Cytometry, IHC-P, IHC-Fr, ICC/IF**.

- Over 80 publications
- Trusted since 2002

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.3 Preservative: 0.09% Sodium azide Constituents: PBS, 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Chemical / Small Molecule corresponding to BrdU.
Clone number	IIB5
Purity	Tissue culture supernatant
Specificity	BrdU is a thymidine analogue and when offered to proliferating cells it is incroporated into reduplicating cells. The antibody is specific for DNA in which BrdU has been incorporated. In immunoassays this antibody reacts strongly with free or carrier-protein coupled BrdU but not with other nucleosides. In immuncytochemistry the antibody only recognizes BrdU in denaturated (single stranded) DNA. The BrdU antibody is 100% crossreactive with Iodo-Deoxy-Uridine (IrdU). Therfore, IdU instead of BrdU can be used in studies.

Reactivity data

Flow Cyt

Tested

Species	Chemical
Dilution info	1/100 - 1/200
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

IHC-FoFr

Expected

Species	Chemical
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Chemical
Dilution info	1/5 - 1/10
Notes	Enzymatic antigen retrieval with proteases can also be used. Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

ICC/IF

Tested

Species	Chemical
Dilution info	-
Notes	-

IHC-Fr

Expected

Species	Chemical
Dilution info	1/5 - 1/10

Notes	Dilute antibody in 0.15 M phosphate buffered saline with 1% BSA and 1% Na-azide.

Target data

See full target information BrdU

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot

Notes

What is this antibody validated in?
Anti-BrdU antibody [IIB5] (ab8152) is a mouse monoclonal antibody and is validated for use in Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr), Immunocytochemistry/immunofluorescence (ICC/IF). **Trusted by the scientific community**
Anti-BrdU [IIB5] (ab8152) was first used in a scientific publication in 2002 and has been cited over 80 times in peer-reviewed journals.

Reviewed by scientists
Anti-BrdU [IIB5] (ab8152) has over 5 independent reviews from customers.

Other related products
We have a range of other formats of antibody clone [IIB5] also available for your convenience: ab8152, ab8955

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

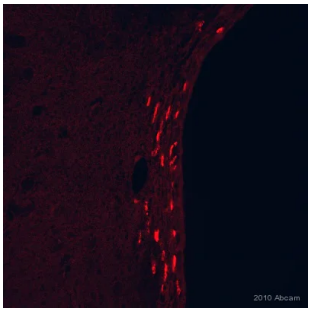
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
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3 product images



This image is courtesy of an anonymous customer review

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BrdU antibody [IIB5] (ab8152)

BrdU Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-BrdU antibody

Immunohistochemical analysis of rat brain tissue, staining BrdU with ab8152.

Tissue was fixed with paraformaldehyde and blocked with 5% serum for 1 hour at 25°C; antigen retrieval was by heat mediation in citrate buffer (pH 6). Samples were incubated with primary antibody (1/20 in diluent) for 18 hours at 25°C. A Cy3®-conjugated donkey anti-mouse polyclonal IgG was used as the secondary antibody.

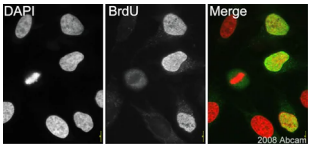
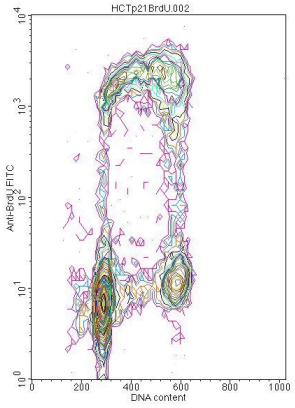


Image courtesy of a customer review submitted by Dr. Kirk McManus, Univ. of Manitoba/Cancer Care MICB, Canada

Immunocytochemistry/ Immunofluorescence - Anti-BrdU antibody [IIB5] (ab8152)

BrdU Immunocytochemistry/ Immunofluorescence staining using mouse Anti-BrdU antibody

ab8152 (1/100) staining BrdU in HeLa cells (green). Cells were fixed with paraformaldehyde, permeabilized with 0.5% Triton X100/ PBS and counterstained with DAPI in order to highlight the nucleus (red). For further esperimental details please see Abreview.



Flow Cytometry - Anti-BrdU antibody [IIB5] (ab8152)

Cells were pulse labeled with 10 µM BrdU for 30 min, rinsed twice in prewarmed PBS, and chased in prewarmed culture medium, supplemented with 5 mM deoxythymidine. Incorporated BrdU was detected after ethanol fixation of the cells, which were than rinsed once in PBS and resuspended in 2 ml of 0.4 mg/ml pepsin in 0.1 N HCl. After 30 min at room temperature cells were pelleted, resuspended in 2 N HCl, and incubated for another 30 min at 37°C. Cells were rinsed in 0.1 M borate buffer, pH 8.5, and PBS/BSA (1 mg/ml BSA in PBS). Appropriately diluted mouse anti-BrdU antibody (clone IIB5) was added to the cell pellet, resuspended in 100 micro liters PBS/BSA. After incubation for 1 h at room temperature, the cells were rinsed twice in PBS/BSA. For visualization, FITC-conjugated Fab2 fragments of rabbit anti-mouse Ig antibody were added in a 1/10 dilution. After incubation for 45 min at room temperature samples were rinsed twice in PBS/BSA and the cells were finally resuspended in 0.5 ml cold PBS supplemented with 100 microgram/ml RNAse and 20 µg/mL propidium iodide. The samples were allowed to stand for 15 min on ice in the dark before flow cytometric analysis. In the negative control the primary antibody was omitted.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.