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DATASHEET

Anti-BrdU antibody ValidAbTM

Product overview

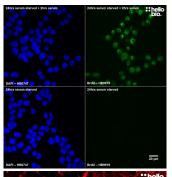
Anti-BrdU antibody ValidAbTM Name

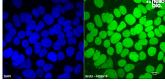
HB9919 Cat No Host Mouse Clonality Monoclonal **Target** BrdU

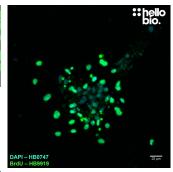
Description Antibody to BrdU - thymidine analogue incorporated into DNA during replication therefore used as a

marker of proliferating cells. Part of the ValidAb™ range of highly validated, data-rich antibodies.

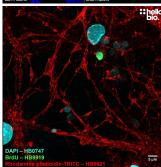
Validation data

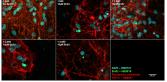












Product information

Immunogen BrdU conjugated with hemocyanine.

Clone number MoBu-1 Isotype lgG1

Purification Protein A affinity chromatography

Lyophilised. When reconstituted contains PBS with 15mM sodium azide and 1% recombinant albumin **Formulation**

Predicted species reactivity Tested species reactivity

NA NA

Tested applications

Applications ICC, IHC(IF)

IHC(IF) optimal concentration 1μg/ml (1:1000) as measured in rat hippocampus.

ICC optimal concentration Product specific protocols 1μg/ml (1:1000) as measured in mixed neuronal cell cultures.

The dense structure of chromatin can prevent anti-BrdU antibodies binding to the intercalated BrdU within the DNA helix. Denaturing the DNA can therefore improve staining:

- Incubate brain sections or coverslips in 2M HCl for 30 minutes at 37 °C
- Incubate with 0.1M sodium tetraborate (2 x 5 minute incubations) to neutralise the acid
- Wash in PBS / TBS (3 x 5 minute washes)
- Continue with immunostaining (see our IHC(IF) and ICC protocols for more information)

Positive control Negative control Open data link For more details on BrdU immunostraining please see Wojtowicz and Kee., 2006
Any cell line or tissue that has had BrdU administered to it while cells are replicating
Any cell line or tissue that has not been exposed to BrdU
Please follow this link to the OSF.

Target information

Other names

5-Bromo-2-deoxyuridine

Storage & Handling

Storage instructions Reconstitution advice -20°C then use reconstitution advice Upon receipt store at either -20°C or -80°C.

For 100µg packs either:

- \bullet Reconstitute with 100µl dH2O and store at 4°C
- Reconstitute with 50µl dH₂O and 50µl glycerol then store at -20°C
- Reconstitute with 100µl dH2O, aliquot then snap freeze and store at -80°C

For 25µg packs either:

- Reconstitute with 25µl dH₂O and store at 4°C
- Reconstitute with 12.5µl dH₂O and 12.5µl glycerol then store at -20°C
- \bullet Reconstitute with 25µl dH $_2$ O, aliquot then snap freeze and store at -80 $^{\circ}\text{C}$

For more information read our guide on the best care for your product. Take care when opening as the precipitate is extremely light and can easily be lost if disturbed. When reconstituting make sure that the antibody is thoroughly dissolved by pipetting up and down before giving the antibody a brief spin at 10,000g to make sure that all material is recovered and at the bottom of the tube. Stable for ambient temperature shipping. Follow storage instructions on receipt.

Shipping Conditions Important

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

References

BrdU assay for neurogenesis in rodents.

Wojtowicz JM et al (2006) Nature protocols 1 **PubMedID** 17406427

The use of bromodeoxyuridine incorporation assays to assess corneal stem cell proliferation.

Crane AM et al (2013) Methods in molecular biology (Clifton, N.J.) 1014

PubMedID 23690005

Proliferation assays (BrdU and EdU) on skeletal tissue sections.

Mead TJ et al (2014) Methods in molecular biology (Clifton, N.J.) 1130

PubMedID 24482177

Neurogenesis in the adult human hippocampus.

Eriksson PS et al (1998) Nature medicine 4 **PubMedID** 9809557