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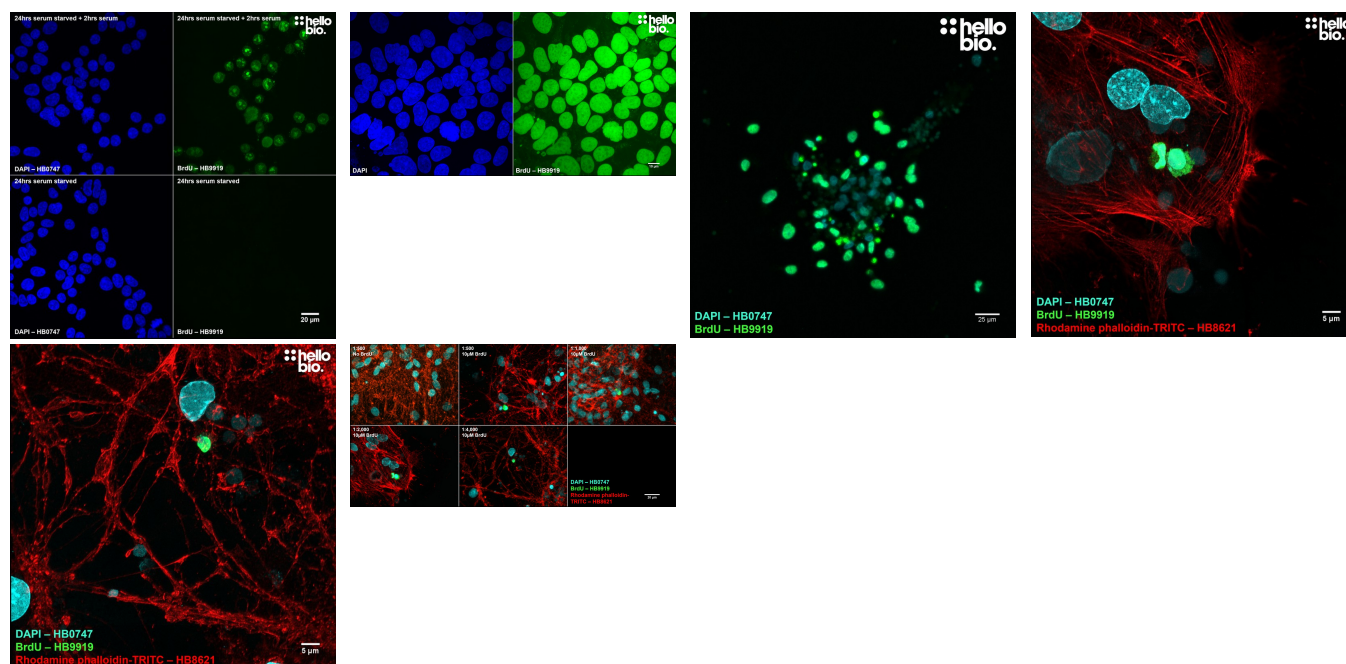
## DATASHEET

### Anti-BrdU antibody ValidAb™

#### Product overview

<b>Name</b>	Anti-BrdU antibody ValidAb™
<b>Cat No</b>	HB9919
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Target</b>	BrdU
<b>Description</b>	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

<b>Immunogen</b>	BrdU conjugated with hemocyanine.
<b>Clone number</b>	MoBu-1
<b>Isotype</b>	IgG1
<b>Purification</b>	Protein A affinity chromatography
<b>Formulation</b>	Lyophilised. When reconstituted contains PBS with 15mM sodium azide and 1% recombinant albumin
<b>Predicted species reactivity</b>	NA
<b>Tested species reactivity</b>	NA

#### Tested applications

<b>Applications</b>	ICC, IHC(IF)
<b>IHC(IF) optimal concentration</b>	1µg/ml (1:1000) as measured in rat hippocampus.

**ICC optimal concentration**  
**Product specific protocols**

1 µg/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 immunostaining 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.

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## Target information

**Other names** [5-Bromo-2-deoxyuridine](#)

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## Storage & Handling

**Storage instructions**  
**Reconstitution advice**

-20 °C then use reconstitution advice  
We recommend reconstituting with either:

- dH<sub>2</sub>O and storing at 4 °C
- 50:50 ratio of dH<sub>2</sub>O to glycerol and storing at -20 °C
- dH<sub>2</sub>O then aliquot and store at -80 °C

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.

**Important**

For more information please see our detailed guide on [storing and using your antibody](#)  
This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

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## 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](#)

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