

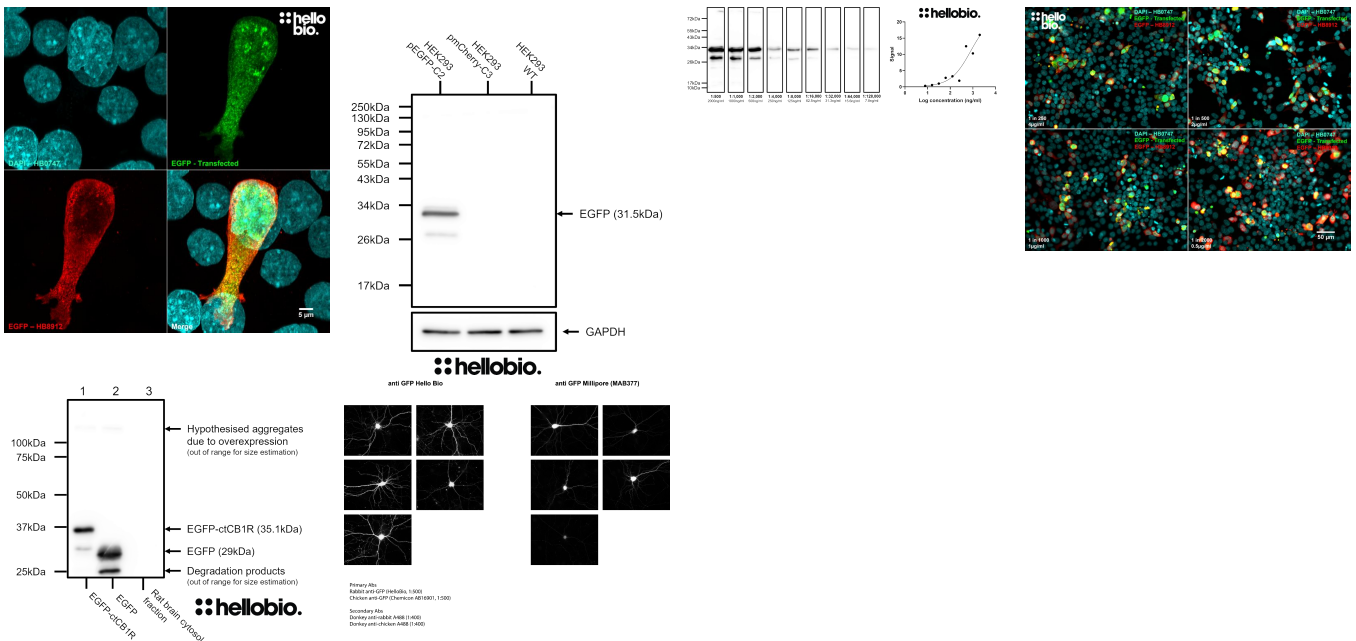
# DATASHEET

## Anti-GFP antibody ValidAb™

### Product overview

<b>Name</b>	Anti-GFP antibody ValidAb™
<b>Cat No</b>	HB8912
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Target</b>	GFP
<b>Customer comments</b>	<i>The GFP antibody shows good specificity and signal/noise (S/N). At equivalent dilution, the signal is brighter with this antibody than with our usual antibodies - the Poncer lab, Institute Du Fer À Moulin - Inserm.</i>
<b>Description</b>	Antibody to GFP - green coloured fluorescent protein widely used as a tag in molecular biology. Part of the ValidAb™ range of highly validated, data-rich antibodies.

### Validation data



### Product information

<b>Immunogen</b>	Full length EGFP protein
<b>Purification</b>	Affinity purification using immunogen as ligand
<b>Concentration</b>	1mg/ml
<b>Formulation</b>	Lyophilised. When reconstituted contains PBS with 15mM sodium azide and 1% recombinant BSA
<b>Predicted species reactivity</b>	Species Independent
<b>Tested species reactivity</b>	Species Independent

### Tested applications

<b>Applications</b>	ICC, WB
<b>Western blot optimal concentration</b>	Dependent upon sample GFP expression. We used 100ng/ml (1:10,000 dilution) in pEGFP-C2 transfected HEK293 cells.
<b>ICC optimal concentration</b>	Dependent upon sample GFP expression. We used as low as 500ng/ml (1:2,000 dilution) in pEGFP-C2 transfected HEK293 cells.
<b>Positive control</b>	Any tissue or cell sample that has been engineered to express GFP.
<b>Negative control</b>	Any wild type tissue or cellular sample.
<b>Open data link</b>	Please follow this <a href="#">this link</a> to OSF

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## Target information

<b>Other names</b>	EGFP, green fluorescent protein, EYFP
<b>UniProt ID</b>	P42212
<b>Gene name</b>	GFP
<b>NCBI full gene name</b>	green fluorescent protein
<b>Amino acids</b>	238 (27kDa)
<b>Isoforms</b>	None
<b>Expression</b>	Exogenously expressed only. Not expressed natively in mammalian cells.
<b>Subcellular expression</b>	GFP is generally expressed cytosolically in basic constructs however expression can be directed to any cellular compartment through GFP-tagged proteins that naturally express in only certain compartments.
<b>Processing</b>	NA
<b>Post translational modifications</b>	NA
<b>Homology (compared to human)</b>	NA
<b>Similar proteins</b>	EGFP (enhanced GFP, 26.9kDa) and YFP (yellow fluorescent protein, 26.4kDa) are both extremely similar with HB8912 recognising these.

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## Storage & Handling

<b>Storage instructions</b>	-20 °C then use reconstitution advice
<b>Reconstitution advice</b>	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.

<b>Important</b>	For more information please see our detailed guide on <a href="#">storing and using your antibody</a> 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

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Remington SJ (2011) Protein Science 20(9)  
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### The green fluorescent protein

Tsien RY (1998) Annu Rev Biochem 67  
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### Fluorescent proteins as biomarkers and biosensors: throwing color lights on molecular and cellular processes

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## A guide to choosing fluorescent proteins

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