Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

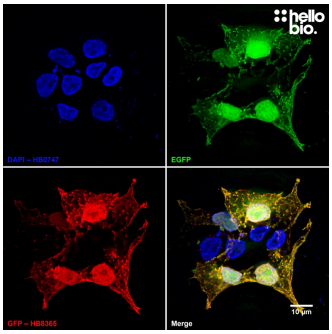
DATASHEET

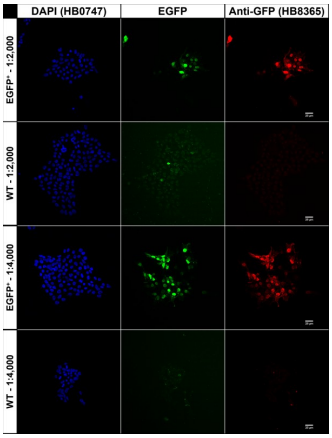
Anti-GFP antibody ValidAb™

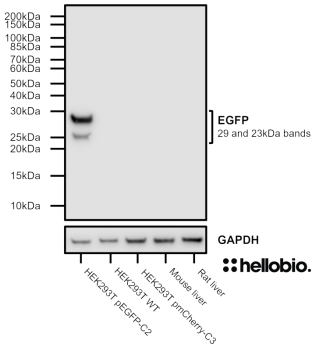
Product overview

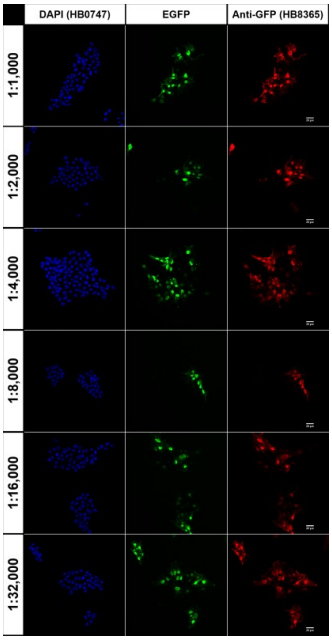
Name	Anti-GFP antibody ValidAb™
Cat No	HB8365
Host	Chicken
Clonality	Polyclonal
Target	GFP
Description	Antibody to GFP - green coloured fluorescent protein widely used as a tag in molecular biology. Part of the ValidAb™ range of highly validated, data-rich antibodies.

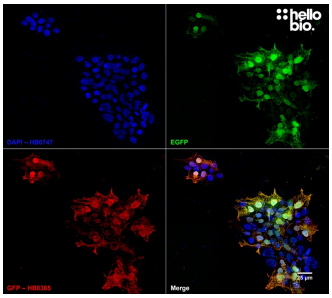
Validation data

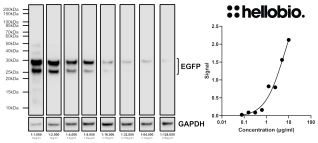


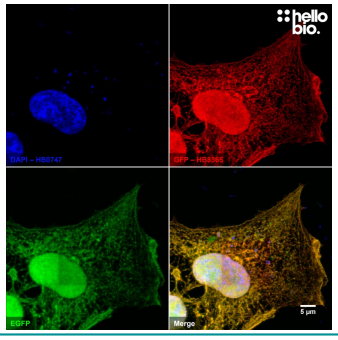












Product information

Immunogen	GFP expressed in and purified from *E.coli*
Purification	Mixture of immunogen affinity purified antibody and purified IgY.
Concentration	10mg/ml
Formulation	50% PBS, 50% glycerol with 0.02% sodium azide

Predicted species reactivity	Species Independent
Tested species reactivity	Species Independent

Tested applications

Applications	ICC, WB
Western blot optimal concentration	Dependent upon sample GFP expression. We observed a 1:8,000 dilution to be optimal in pEGFP-C2 transfected HEK293 cells.
ICC optimal concentration	Dependent upon sample GFP expression. We observed a 1:8,000 dilution to be optimal in pEGFP-C2 transfected HEK293 cells.
Positive control	Any tissue or cell sample that has been engineered to express GFP.
Negative control	Any wild type tissue or cellular sample.
Open data link	Please follow this link to OSF

Target information

Other names	EGFP, green fluorescent protein, EYFP
UniProt ID	P42212
Gene name	GFP
NCBI full gene name	green fluorescent protein
Amino acids	238 (27kDa)
Isoforms	None
Expression	Exogenously expressed only. Not expressed natively in mammalian cells.
Subcellular expression	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.
Target function	None. Used widely in research to visualise specific proteins through GFP-tagged recombinant constructs.
Processing	NA
Post translational modifications	NA
Homology (compared to human)	NA
Similar proteins	EGFP (enhanced GFP, 26.9kDa) and YFP (yellow fluorescent protein, 26.4kDa) are both extremely similar.

Storage & Handling

Storage instructions	-20°C
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

References

Green fluorescent protein: a perspective.

Remington SJ (2011) Protein science : a publication of the Protein Society 20
PubMedID 21714025

Fluorescent proteins as biomarkers and biosensors: throwing color lights on molecular and cellular processes.

Stepanenko OV et al (2008) Current protein & peptide science 9
PubMedID 18691124

A guide to choosing fluorescent proteins.

Shaner NC et al (2005) Nature methods 2
PubMedID 16299475

The green fluorescent protein.

Tsien RY (1998) Annual review of biochemistry 67
PubMedID 9759496

Crystal structure of the Aequorea victoria green fluorescent protein.

Ormö M et al (1996) Science (New York, N.Y.) 273
PubMedID 8703075