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# **DATASHEET**

Anti-GFP antibody ValidAb™

### **Product overview**

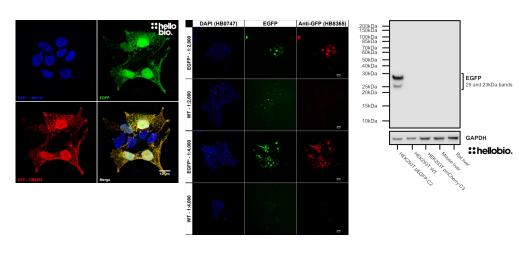
Name Anti-GFP antibody ValidAb<sup>TM</sup>

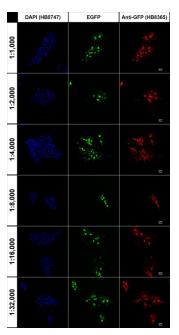
Cat No HB8365
Host Chicken
Clonality Polyclonal
Target GFP

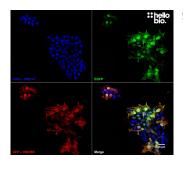
**Description** Antibody to GFP - green coloured fluorescent protein widely used as a tag in molecular biology. Part of

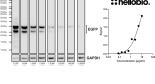
the ValidAb™ range of highly validated, data-rich antibodies.

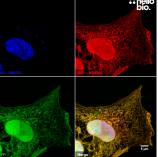
### Validation data











## **Product information**

Immunogen
Purification
Concentration
Formulation

GFP expressed in and purified from E.coli

Mixture of immunogen affinity purified antibody and purified IgY.

10mg/ml

50% PBS, 50% glycerol with 0.02% sodium azide

Predicted species reactivity Tested species reactivity Species Independent Species Independent

## **Tested applications**

Applications ICC, WB

Western blot optimal Dependent upon sample GFP expression. We observed a 1:8,000 dilution to be optimal in pEGFP-C2

concentration

ICC optimal concentration

transfected HEK293 cells.

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 NA

modifications

Homology (compared to

human)

Similar proteins

NA

EGFP (enhanced GFP, 26.9kDa) and YFP (yellow fluorescent protein, 26.4kDa) are both extremely

simila

# Storage & Handling

Storage instructions
Shipping Conditions

-20°C On ice

Important This p

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