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DATASHEET

Anti-GFP antibody ValidAbTM

Product overview

Name Anti-GFP antibody ValidAbTM

Cat NoHB8912HostRabbitClonalityPolyclonalTargetGFP

Customer comments The GFP antibody shows good specificity and signal/noise (S/N). At equivalent dilution, the signal is

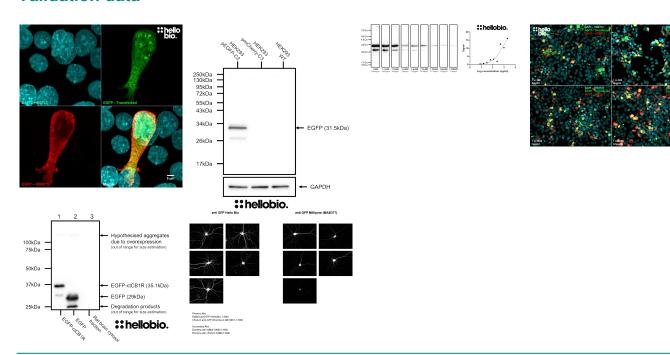
brighter with this antibody than with our usual antibodies - the Poncer lab, Institute Du Fer À Moulin -

Inserm.

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 Full length EGFP protein

Purification Affinity purification using immunogen as ligand

Concentration 1mg/ml

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

Predicted species reactivity Species Independent Species Independent

Tested applications

Applications

Western blot optimal concentration

transfected HEK293 cells. ICC optimal concentration Dependent upon sample GFP expression. We used as low as 500ng/ml (1:2,000 dilution) in pEGFP-

C2 transfected HEK293 cells.

Dependent upon sample GFP expression. We used 100ng/ml (1:10,000 dilution) in pEGFP-C2

Positive control Any tissue or cell sample that has been engineered to express GFP.

Negative control Any wild type tissue or cellular sample. Please follow this this link to OSF Open data link

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.

Processing Post translational modifications

Homology (compared to

NA

human)

Similar proteins

NA

NA

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

similar with HB8912 recognising these.

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:

- 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
- Reconstitute with 25µl dH₂O, aliquot then snap freeze and store at -80°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.

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

for human or veterinary use

References

Important

Green fluorescent protein: A perspective

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Tsien RY (1998) Annu Rev Biochem 67 **PubMedID** 9759496

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Shimomura O, Johnson F and Saiga Y (1962) J Cell Comp Physiol 59

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Crystal structure of the Aequorea victoria green fluorescent protein

Ormö M et al (1996) Science 273(5280) **PubMedID**8703075

A guide to choosing fluorescent proteins

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