

# Product Datasheet

## GFP Antibody [Texas Red]

### NB120-6660

Unit Size: 0.2 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB120-6660**

GFP Antibody [Texas Red]

Product Information	
Unit Size	0.2 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Conjugate	Texas Red
Purity	Immunogen affinity purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Product Description	
Description	<p>For extended storage aliquot contents and freeze at -20C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room</p> <p>GFP Texas Red(TM) Conjugated Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Green Fluorescent Protein (Aequorea victoria) coupled to agarose beads followed by solid phase adsorption (s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum and purified and partially purified Green Fluorescent Protein (Aequorea victoria) Serum</p>
Host	Goat
Species	Non-species specific
Reactivity Notes	No reaction was observed against Human, or Rat serum proteins. Known Cross Reactivity: rGFP. YFP differs from GFP due to a mutation at Thr203Tyr; antibodies raised against full-length GFP should also detect YFP and other variants. Reactivity in transgenic mice with GFP. Reactivity in human cell lines transfected with a GFP construct.
Specificity/Sensitivity	No reaction was observed against Human, Mouse and Rat Serum Proteins.
Immunogen	The immunogen is a Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246aa) derived from the jellyfish Aequorea victoria. (Uniprot: P42212)

Product Application Details	
Applications	Western Blot, ELISA, Fluorophore-linked immunosorbent assay, Immunocytochemistry/ Immunofluorescence, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot >1:10000, ELISA 1:100-1:2000, Immunocytochemistry/ Immunofluorescence 1:500-1:2500, Fluorophore-linked immunosorbent assay >1:20000, Knockout Validated, Knockdown Validated



**Application Notes**

This antibody is designed to detect GFP and its variants. This antibody can be used to detect GFP by ELISA (sandwich or capture) for the direct binding of antigen and recognizes wild type, recombinant and enhanced forms of GFP. Biotin conjugated polyclonal anti-GFP used in a sandwich ELISA is well suited to titrate GFP in solution using this antibody in combination with monoclonal anti-GFP using either form of the antibody as the capture or detection antibodies. However, use the monoclonal form only for the detection of wild type or recombinant GFP as this form does not sufficiently detect 'enhanced' GFP. The detection antibody is typically conjugated to biotin and subsequently reacted with streptavidin conjugated HRP. This antibody can be used to detect GFP by immunofluorescence microscopy in prokaryotic (*E.coli*) and eukaryotic (CHO cells) expression systems and can detect GFP containing inserts. Significant amplification of signal is achieved using fluorochrome conjugated polyclonal anti-GFP relative to the fluorescence of GFP alone. For immunoblotting use either alkaline phosphatase or peroxidase conjugated polyclonal anti-GFP to detect GFP or GFP containing proteins on western blots. Optimal titers for applications should be determined by the researcher.

**Publications**

Jenny B, Kanemitsu M, Tsupykov O et al. Fibroblast Growth Factor-2 Overexpression in Transplanted Neural Progenitors Promotes Perivascular Cluster Formation with a Neurogenic Potential Stem Cells 2009-01-01 [PMID: 19489096]

**Details:**

This citation used the Texas Red version of this antibody.





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### **Products Related to NB120-6660**

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NBP1-96901	Goat IgG Isotype Control [Texas Red]
NB100-56401PEP	GFP Antibody Blocking Peptide
NBC1-22949	Recombinant GFP Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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