

# Product Datasheet

## **alpha-Fetoprotein/AFP Antibody (AF5) - Chimeric - Azide and BSA Free NBP2-82221-0.2mg**

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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**NBP2-82221-0.2mg**

alpha-Fetoprotein/AFP Antibody (AF5) - Chimeric - Azide and BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
Clonality	Monoclonal
Clone	AF5
Preservative	0.02% Proclin 300
Isotype	IgG Kappa
Purity	Protein A purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit alpha-Fetoprotein/AFP Antibody (AF5) - Chimeric - Azide and BSA Free (NBP2-82221) is a recombinant monoclonal antibody validated for use in WB, Flow and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	174
Gene Symbol	AFP
Species	Human
Specificity/Sensitivity	Recognises the human alpha-Fetoprotein/AFP.
Immunogen	AF5 was prepared by immunizing female BALB/c mice with human amniotic fluid containing alpha-Fetoprotein/AFP, from a pregnancy affected by a neural tube defect, diluted and emulsified in Freund's complete adjuvant.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence
Application Notes	This chimeric rabbit antibody was made using the variable domain sequences of the original murine IgG1 format, for improved compatibility with existing reagents, assays and techniques. Antibody First Published in: Hemminki et al. Introduction of lysine residues on the light chain constant domain improves the labelling properties of a recombinant Fab fragment. Protein Eng. 1995 Feb;8(2):185- 91. PMID:7543205

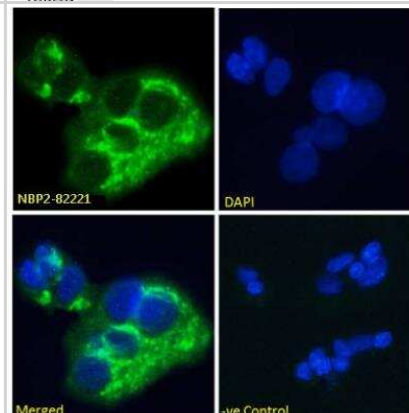


## Images

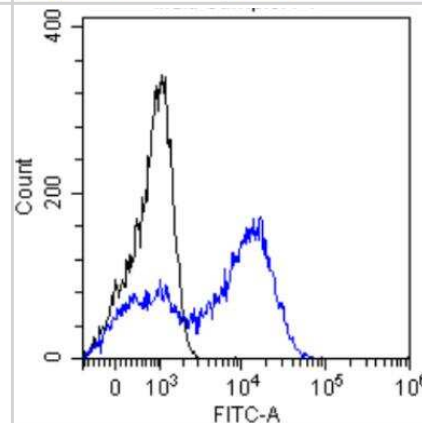
**Western Blot: alpha-Fetoprotein/AFP Antibody (AF5) [NBP2-82221] -** HepG2 cell lysate (35ug protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of alpha-Fetoprotein/AFP Antibody (AF5) [NBP2-82221] at 1 ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for Alpha-fetoprotein is 68.7kDa, though this protein is also glycosylated (Uniprot ID: P02771). NBP2-82221 successfully detected human Alpha-fetoprotein in HepG2 cell lysates.



**Immunocytochemistry/Immunofluorescence: alpha-Fetoprotein/AFP Antibody (AF5) [NBP2-82221] -** Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton stained with the chimeric rabbit IgG version of alpha-Fetoprotein/AFP Antibody (AF5) [NBP2-82221] at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom: NBP2-82221, DAPI, merged channels and a negative control. The negative control was stained with unimmunized rabbit IgG followed by Alexa Fluor 488 secondary antibody.



**Flow Cytometry: alpha-Fetoprotein/AFP Antibody (AF5) [NBP2-82221] -** HepG2 cells were stained with unimmunized rabbit IgG antibody (black line) or the rabbit-chimeric version of ([NBP2-82221], blue line) at a concentration of 10 ug/ml for 30 mins at RT. After washing, bound antibody was detected using an anti-rabbit IgG JK (FITC-conjugate) antibody at 2 ug/ml and cells analyzed on a FACSCanto flow-cytometer.





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### **Products Related to NBP2-82221-0.2mg**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-52171-0.05mg	Recombinant Human alpha-Fetoprotein/AFP His 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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