

# Product Datasheet

## alpha-Fetoprotein/AFP Antibody (C3)

### NBP2-32914-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-32914-0.1mg**

alpha-Fetoprotein/AFP Antibody (C3)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	C3
Preservative	0.05% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	70 kDa

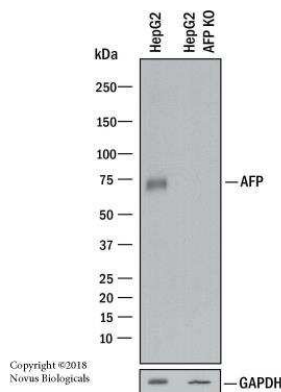
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-34577)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	174
Gene Symbol	AFP
Species	Human, Porcine, Canine, Monkey, Bovine (Negative), Mouse (Negative), Rat (Negative)
Reactivity Notes	Does not react with Bovine, Mouse or Rat.
Marker	Hepatocellular/Germ Cell Tumor Marker
Specificity/Sensitivity	It recognizes an oncofetal glycoprotein with a single chain of 70kDa, which is identified as alpha-fetoprotein (AFP) (ISOBM TD-2 workshop). This monoclonal antibody is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin. AFP is normally synthesized in the liver, intestinal tract, and yolk sac of the fetus. Antibody to AFP has been shown to be useful in detecting hepatocellular carcinomas (HCC) and germ cell neoplasms, especially yolk sac tumors.
Immunogen	Alpha feto protein (AFP) Purified from serum of a hepatoma patient (Uniprot: P02771)

Product Application Details	
Applications	Flow (Intracellular), Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA, Knockout Validated
Recommended Dilutions	Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml, Sandwich ELISA, Flow (Intracellular), Knockout Validated
Application Notes	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. Use in Sandwich -ELISA reported in scientific literature (PMID:31921529).

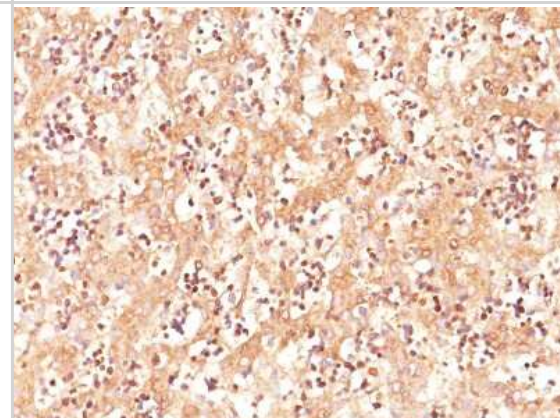
## Images

### Knockout Validated: alpha-Fetoprotein/AFP Antibody (C3) [NBP2-32914]

- Western blot shows lysates of HepG2 human liver carcinoma cells parental cell line and AFP knockout (KO) HepG2 cell line. PVDF membrane was probed with 1.0 ug/mL of Mouse Anti-Human AFP Monoclonal Antibody (Catalog # NBP2-32914) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog #HAF018). Specific band was detected for AFP at approximately 74 kDa (as indicated) in the parental HepG2 cell line, but is not detectable in the knockout HepG2 cell line. This experiment was conducted under reducing conditions.

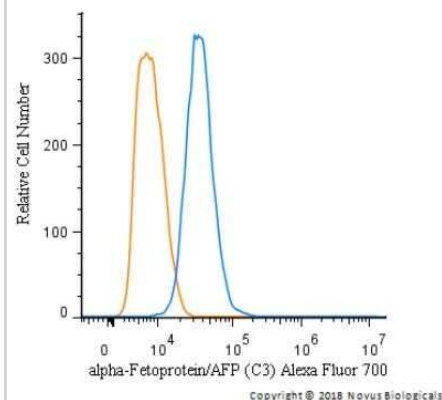


**Immunohistochemistry-Paraffin: alpha-Fetoprotein/AFP Antibody (C3) [NBP2-32914]** - Formalin-fixed, paraffin-embedded human fetal liver stained with AFP MAb (C3).



### Flow (Intracellular): alpha-Fetoprotein/AFP Antibody (C3) [NBP2-32914]

- An intracellular stain was performed on HepG2 cells with alpha-Fetoprotein/AFP Antibody [C3] NBP2-34577AF700 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 700. Image using the Alexa Fluor 700 Azide and BSA Free format of this antibody.



## Publications

Dadfar S, Sekula-Neuner S, Trouillet V, et al. Evaluation of click chemistry microarrays for immunosensing of alpha-fetoprotein (AFP) Beilstein J. Nanotechnol. 2019-12-16 [PMID: 31921529] (S-ELISA)



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### **Products Related to NBP2-32914-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
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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