

Product Datasheet

alpha-Fetoprotein/AFP Antibody (C3) - Azide and BSA Free NBP2-34577-0.1mg

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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NBP2-34577-0.1mg

alpha-Fetoprotein/AFP Antibody (C3) - Azide and BSA Free

| Product Information | |
|-------------------------|---|
| Unit Size | 0.1 mg |
| Concentration | 1.0 mg/ml |
| Storage | Store at -20 to -80C. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | C3 |
| Preservative | No Preservative |
| Isotype | IgG2a Kappa |
| Purity | Protein A or G purified |
| Buffer | 10 mM PBS |
| Target Molecular Weight | 70 kDa |

| Product Description | |
|-------------------------|---|
| Description | 1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-32914). 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) |

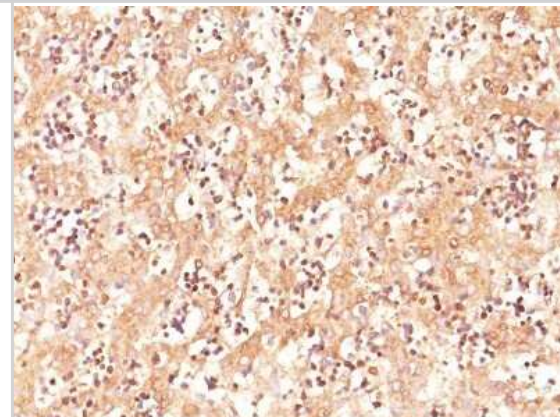
| Product Application Details | |
|-----------------------------|---|
| Applications | ELISA, Flow Cytometry, Flow (Intracellular), Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA, CyTOF-ready, Knockout Validated |
| Recommended Dilutions | Flow Cytometry 0.5-1ug/million cells, ELISA 1-5ug/ml for coating, Immunohistochemistry, Immunohistochemistry-Paraffin 0.5-1ug/ml, Sandwich ELISA, Flow (Intracellular), CyTOF-ready, Knockout Validated |

Application Notes

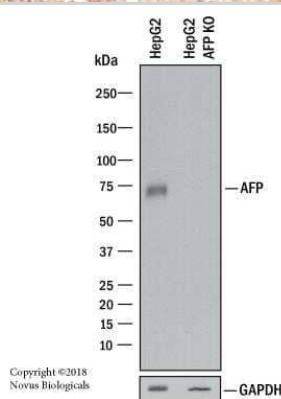
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. Use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

Images

Immunohistochemistry-Paraffin: alpha-Fetoprotein/AFP Antibody (C3) - Azide and BSA Free [NBP2-34577] - Formalin-fixed, paraffin-embedded human fetal liver stained with AFP MAb (C3).



Knockout Validated: alpha-Fetoprotein/AFP Antibody (C3) - Azide and BSA Free [NBP2-34577] - 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.





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Products Related to NBP2-34577-0.1mg

| | |
|-------------------|---|
| 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 |

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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