

DESCRIPTION

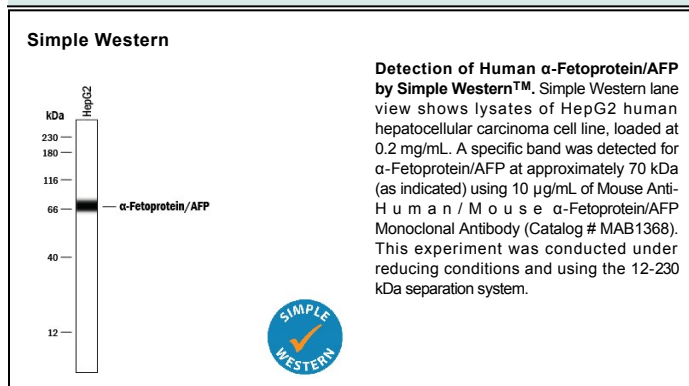
| | |
|---------------------------|---|
| Species Reactivity | Human/Mouse |
| Specificity | Detects human α -Fetoprotein/AFP in direct ELISAs and Western blots. |
| Source | Monoclonal Mouse IgG ₁ Clone # 189502 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Human umbilical cord serum-derived α -Fetoprotein/AFP |
| Formulation | Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|---|-----------------------------------|---|
| Western Blot | 1 μ g/mL | Human α -Fetoprotein/AFP |
| Immunocytochemistry | 8-25 μ g/mL | Immersion fixed HepG2 human hepatocellular carcinoma cell line and NCTC 1469 mouse liver cell line |
| Intracellular Staining by Flow Cytometry | 2.5 μ g/10 ⁶ cells | HepG2 human hepatocellular carcinoma cell line fixed with paraformaldehyde and permeabilized with saponin |
| Simple Western | 10 μ g/mL | See Below |

DATA



PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

α -Fetoprotein is a major plasma protein in the fetus. Its concentration is normally low in the adult except when produced by certain tumors. AFP is produced by the yolk sac and the liver during fetal development. It is thought to be the fetal form of serum albumin. AFP binds to copper, nickel, fatty acids and bilirubin and can found in mono-, di or trimeric forms.