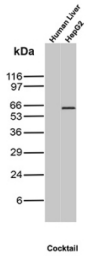
AFP Antibody [clone MBS-12] (V2478)

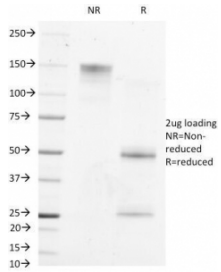
Catalog No.	Formulation	Size
V2478-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2478-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2478SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2478IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

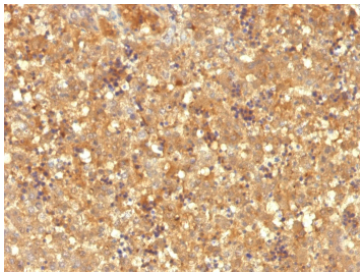
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	MBS-12
Purity	Protein G affinity chromatography
UniProt	P02771
Localization	Cytoplasmic
Applications	Flow Cytometry : 0.5-1ug/10^6 cells Immunofluorescence : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 2-4ug/ml
Limitations	This AFP antibody is available for research use only.



AFP Antibody Human Liver and HepG2 WB. Western blot analysis of human liver and HepG2 cell lysates using AFP Antibody (clone MBS-12) detects a band at approximately 65-70 kDa in HepG2 cells, consistent with the expected molecular weight of Alpha fetoprotein. No band is observed in adult human liver lysate, reflecting the known suppression of AFP expression in normal adult liver and its re-expression in hepatocellular carcinoma-derived cells.



SDS-PAGE Analysis of Purified, BSA-Free AFP Antibody (clone MBS-12). Confirmation of Integrity and Purity of the Antibody.



IHC: Formalin-fixed, paraffin-embedded human fetal liver stained with AFP antibody (MBS-12).

Description

AFP Antibody recognizes an oncofetal glycoprotein with a single chain of 70kDa, which is identified as alpha fetoprotein (AFP). This mAb is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin. The yolk sac and the liver produce AFP during fetal life. AFP expression in adults is often associated with hepatoma or teratoma. However, hereditary persistence of alpha-fetoprotein may also be found in individuals with no obvious pathology. The protein is thought to be the fetal counterpart of serum albumin, and the AFP and albumin genes are present in tandem in the same transcriptional orientation on chromosome 4. AFP is found in monomeric as well as dimeric and trimeric forms, and binds copper, nickel, fatty acids and bilirubin. The level of AFP in amniotic fluid is used to measure renal loss of protein to screen for spinal bifida and anencephaly.

This antibody can be compared with our AFP Antibody cocktail (clones C2 + C3 + MBS-12) for robust detection of alpha fetoprotein across multiple assay formats in tumor marker studies.

Application Notes

Optimal dilution of the AFP antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant full-length human Alpha Fetoprotein was used as the immunogen for the AFP antibody.

Storage

Store the AFP antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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