Datasheet for ABIN93887

anti-alpha Fetoprotein antibody

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Overview

Quantity:	0.1 mg
Target:	alpha Fetoprotein (AFP)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This alpha Fetoprotein antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Radioimmunoassay (RIA)

Product Details

Immunogen:	purified alpha-Fetoprotein
Clone:	AFP-11
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody AFP-11 reacts with human alpha-Fetoprotein (AFP), a 70 kDa oncofetal antigen. AFP is a major fetal plasma protein, but is not present in healthy adult tissues. Elevated AFP concentrations in adult plasma may be an early marker of hepatocellular carcinoma or teratoblastoma, while high concentrations in amniotic fluid may indicate severe congenital defects of a fetus.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	alpha Fetoprotein (AFP)
Alternative Name:	alpha-Fetoprotein (AFP Products)
Background:	Alpha fetoprotein,Alpha-fetoprotein (AFP) is present in fetal plasma, and it binds e.g. copper, nickel, and bilirubin. Measuring of alpha-fetoprotein level in amniotic fluid can reveal severe fetal defects. In adults, elevated AFP concentrations in the plasma can indicate hepatocellular carcinoma or teratoblastoma. In some individuals, hereditary persistance of alpha-fetoprotein can be observed without any obvious pathology.,AFP, FETA, HPAFP
Gene ID:	174
UniProt:	P02771
Pathways:	C21-Steroid Hormone Metabolic Process

Application Details

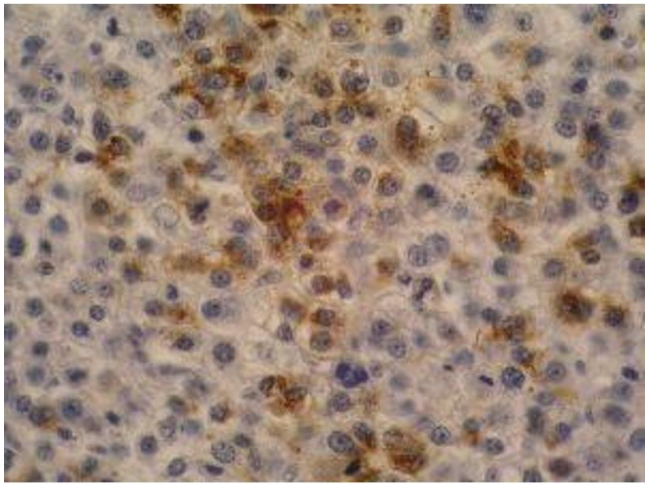
Application Notes:	ELISA: The antibody AFP-11 has been tested as the capture antibody in a sandwich ELISA for analysis of human alpha-fetoprotein in combination with antibody AFP-01 (cat. no. 11-259-C100). Immunohistochemistry (paraffin sections): Recommended dilution: 10 µg/mL, positive tissue: hepatocellular carcinoma, heat mediated antigen retrieval (sodium citrate buffer), mAb incubation 1 hour / RT, detection DAB. Western blotting: Recommended dilution: 2 µg/mL, non-reducing conditions.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

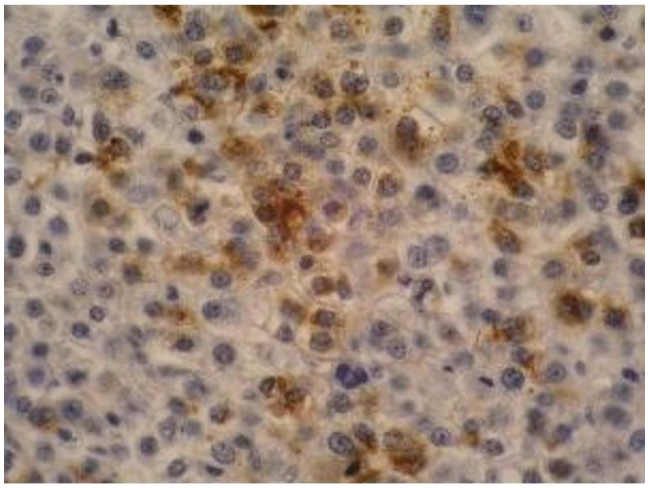
Western Blotting

Image 1. Western blotting analysis of human alpha-fetoprotein using mouse monoclonal antibody AFP-11 on lysates of HepG2 cell line and Jurkat cell line (negative control) under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/mL of mouse monoclonal antibody anti-alpha-fetoprotein followed by IRDye800-conjugated anti-mouse secondary antibody. Alpha-fetoprotein was detected at approximately 60 kDa.



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded sections (hepatocellular carcinoma) Immunohistochemistry staining of hepatocellular carcinoma (fetal liver; paraffin-embedded sections) with anti-human alpha-Fetoprotein (AFP-11).



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry staining of hepatocellular carcinoma (fetal liver, paraffin-embedded sections) with anti-human alpha-Fetoprotein (AFP-11).