Datasheet for ABIN93889

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, Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	purified alpha-Fetoprotein
Clone:	AFP-01
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody AFP-01 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):	Other not tested, Human
Purification:	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).
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-01 has been tested as the detection antibody in a sandwich ELISA for analysis of human alpha-fetoprotein in combination with antibody AFP-11 (cat. no. 11-384-C100). Western blotting: Recommended dilution: 1-2 µg/mL, non-reducing conditions. Immunoprecipitation: Interaction of the antibody AFP-01 with AFP is dependent on the presence of calcium ions (strongly inhibited by chelating agents). Such characteristics of the antibody can be exploited for immunoaffinity purification of APF under mild elution conditions.
Restrictions:	For Research Use only

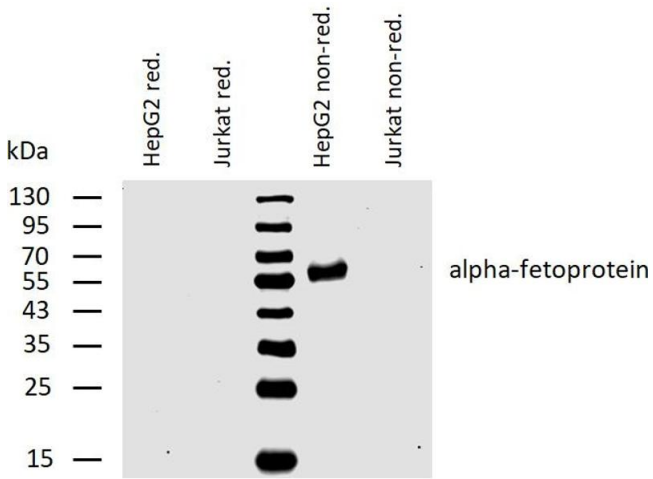
Handling

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.

Publications

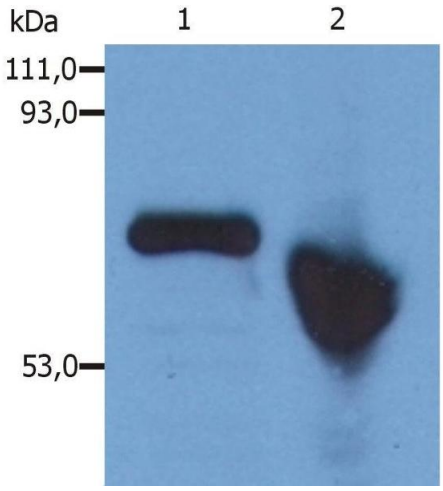
Product cited in: Cermák, Símová, Pintzas, Horejsí, Andera: "Molecular mechanisms involved in CD43-mediated apoptosis of TF-1 cells. Roles of transcription Daxx expression, and adhesion molecules." in: **The Journal of biological chemistry**, Vol. 277, Issue 10, pp. 7955-61, (2002) (PubMed).

Images



Western Blotting

Image 1. Western blotting analysis of human alpha-fetoprotein using mouse monoclonal antibody AFP-01 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.



Western Blotting

Image 2. Western Blotting analysis of human alpha-Fetoprotein in Hep G2 human hepatocellular carcinoma cell line. Lane 1: immunostaining with anti-human alpha-Fetoprotein (AFP-01); reducing conditions Lane 2:); non-reducing conditions