

Alpha-fetoprotein (AFP) Recombinant Antibody | AFP recombinant antibody

Anti-Alpha-fetoprotein (AFP) [AF5]

CATALOG #
AAA71967

REACTIVITY
Human

PRODUCT SYNONYMS

Alpha-fetoprotein (AFP); Monoclonal Recombinant Antibody; Anti-Alpha-fetoprotein (AFP) [AF5]; AFP recombinant antibody

PRODUCT SPECIFICATIONS

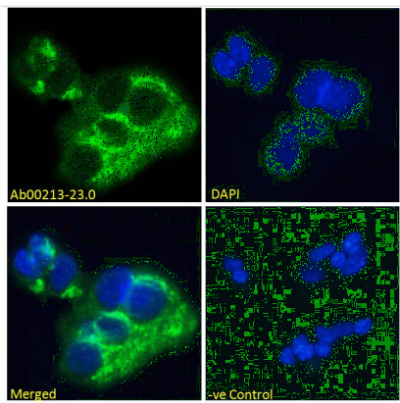
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG, kappa
Clone Number	AF5
Specificity	Recognizes the human Alpha-fetoprotein.
Purity/Purification	Purified Protein A Affinity Purified
Sequence Length	609
Immunogen	AF5 was prepared by immunizing female BALB/c mice with human amniotic fluid containing AFP, from a pregnancy affected by a neural tube defect, diluted and emulsified in Freund's complete adjuvant.
Antigen	Alpha-fetoprotein (AFP)
Antigen Description	AF5 was prepared by immunizing female BALB/c mice with human amniotic fluid containing AFP, from a pregnancy affected by a neural tube defect, diluted and emulsified in Freund's complete adjuvant.
Buffer Composition	PBS only with 0.02% Proclin 300.
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original murine IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



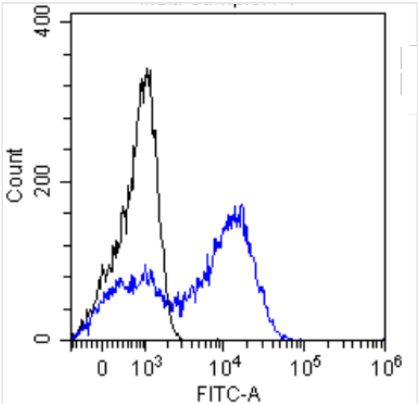
WB (Western Blot)

Western Blot using anti-Alpha-fetoprotein antibody AF5 HepG2 cell lysate (35ug protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of AF5 at 1 ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for Alpha-fetoprotein is 68.7kDa, though this protein is also glycosylated (Uniprot ID: P02771). successfully detected human Alpha-fetoprotein in HepG2 cell lysates.



IF (Immunofluorescence)

Immunofluorescence staining of fixed HepG2 cells with anti-Alpha-fetoprotein (AFP) antibody AF5 Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton stained with the chimeric rabbit IgG version of AF5 at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and a negative control. The negative control was stained with unimmunized rabbit IgG followed by Alexa Fluor 488 secondary antibody.



FCM/FACS (Flow Cytometry)

Flow-cytometry using the anti-Alpha-fetoprotein AF5 HepG2 cells were stained with unimmunized rabbit IgG antibody (black line) or the rabbit-chimeric version of AF5 at a concentration of 10 ug/ml for 30 mins at RT. After washing, bound antibody was detected using anti-rabbit IgG JK (FITC-conjugate) antibody (129936) at 2 ug/ml and cells analyzed on a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for AFP recombinant antibody	Recombinant monoclonal antibody to Alpha-fetoprotein (AFP). Manufactured using Recombinant Platform with variable regions (i.e. specificity) from the hybridoma AF5.
Product Categories/Family for AFP recombinant antibody	Cancer
References	Hemminki et al. Protein Eng. 1995 Feb;8(2):185-91. PMID:7543205

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501989
NCBI GeneID	174
NCBI Accession #	NP_001125.1
NCBI GenBank Nucleotide #	NM_001134.2

UniProt Accession #	P02771 ; B2RBU3
Molecular Weight	68,678 Da
NCBI Official Full Name	alpha-fetoprotein isoform 1
NCBI Official Synonym Full Names	alpha fetoprotein
NCBI Official Symbol	AFP
NCBI Official Synonym Symbols	AFPD; FETA; HPAFP
NCBI Protein Information	alpha-fetoprotein
UniProt Protein Name	Alpha-fetoprotein
UniProt Gene Name	AFP
UniProt Synonym Gene Names	HPAFP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/alpha-fetoprotein-afp-recombinant-antibody-clone-af5-elisa/71967>