**Product datasheet**

**Anti-alpha 1 Fetoprotein antibody ab182645**

**Overview**

**Product name**
Anti-alpha 1 Fetoprotein antibody

**Description**
Rabbit polyclonal to alpha 1 Fetoprotein

**Host species**
Rabbit

**Tested applications**
Suitable for: IHC-P, WB

**Species reactivity**
Reacts with: Human

**Immunogen**
Recombinant fragment within Human alpha 1 Fetoprotein aa 260-609. The exact sequence is proprietary. BC027881
Sequence:
```
L DVAHV/HEHCC RGDVL/CLQD GEKIMSYIC
QQT/LSNKIT ECCLLT/TLER GQCIIHAEND
EKPEGL/SPN NL/RFGLDRDFN QFSSGEKNIF
LASF/HEYSR RHPO/AVSVILRVAKGYQEL
LEKFQT/ENP LEC/CDKGEEE LQKYIQ/ESQA
LAKRSC/QLF KLG/ERYLQNA FLVAYTKKAP
QLTS/ELMAI TRK/MAATAAT CCQLS/DKL
ACGEA/GDII GHLC/IRHEM TPVNP/GVQC
CTSSYANRRP CFSSL/VVDET YVPPAFSDDK
FIFH/DLCA QGVALQTMKQ EFLINLVKQK
POI/EEOLEA VIADFSGLLE KCCQGQE/EV
CFAE/GEKLISKTRAALGV
```

Database link: P02771

**Positive control**
Human liver cancer tissue

**Properties**

**Form**
Liquid

**Storage instructions**

**Storage buffer**
- pH: 7.30
- Preservative: 0.05% Sodium azide
- Constituents: 49% PBS, 50% Glycerol
Purity  
Immunogen affinity purified

Clonality  
Polyclonal

Isotype  
IgG

Applications

Our Abpromise guarantee covers the use of ab182645 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
<th>Abviews</th>
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<td>IHC-P</td>
<td>1/50 - 1/200.</td>
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Target

Function  
Binds copper, nickel, and fatty acids as well as, and bilirubin less well than, serum albumin. Only a small percentage (less than 2%) of the human AFP shows estrogen-binding properties.

Tissue specificity  
Plasma. Synthesized by the fetal liver and yolk sac.

Sequence similarities  
Belongs to the ALB/AFP/VDB family. Contains 3 albumin domains.

Developmental stage  
Occurs in the plasma of fetuses more than 4 weeks old, reaches the highest levels during the 12th-16th week of gestation, and drops to trace amounts after birth. The serum level in adults is usually less than 40 ng/ml. AFP occurs also at high levels in the plasma and ascitic fluid of adults with hepatoma.

Post-translational modifications  
Independent studies suggest heterogeneity of the N-terminal sequence of the mature protein and of the cleavage site of the signal sequence. Sulfated.

Cellular localization  
Secreted.

Images

Immunohistochemical analysis of paraffin-embedded Human liver cancer tissue labeling Alpha 1 fetoprotein with ab182645 at 1/60 dilution (left). On the right is treated with the immunogen.
Western blot - Anti-alpha 1 Fetoprotein antibody (ab182645) at 1/1000 dilution + Human liver cancer tissue at 40 µg

Secondary
Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution

Predicted band size: 69 kDa

Exposure time: 30 seconds

8% SDS-PAGE

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