

Anti-ALKBH5 Antibody Picoband®

Catalog Number: A03360-carrier-free

About ALKBH5

RNA demethylase ALKBH5 is an enzyme that in humans is encoded by the ALKBH5 gene. It is mapped to 17p11.2. N (6)-methyladenosine (m (6)A) is the most prevalent modification of mRNA. ALKBH5 functions as a demethylase that removes m (6)A from mRNAs.

Overview

Product Name	Anti-ALKBH5 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-ALKBH5 Antibody Picoband® catalog # A03360. Tested in ELISA, IF, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q6P6C2

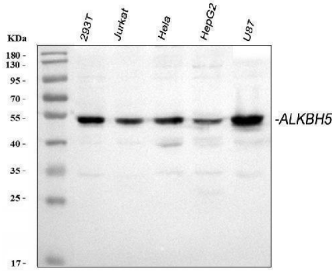
Technical Details

Immunogen	E.coli-derived human ALKBH5 recombinant protein (Position: E81-R180).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

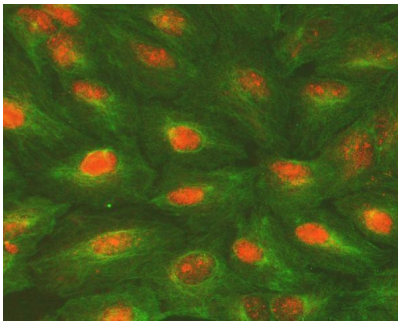
Suggested Dilutions

Western blot, 0.1-0.25ug/ml, Human
Immunocytochemistry/Immunofluorescence, 5ug/ml, Human
ELISA, 0.1-0.5ug/ml, -

Anti-ALKBH5 Antibody Picoband® (A03360-carrier-free) Images



Western blot analysis of ALKBH5 using anti-ALKBH5 antibody (A03360). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human Jurkat whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: human U87 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ALKBH5 antigen affinity purified polyclonal antibody (Catalog # A03360) at 0.25 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for ALKBH5 at approximately 52 kDa. The expected band size for ALKBH5 is at 44 kDa.



IF analysis of ALKBH5 using anti-ALKBH5 antibody (A03360) and anti-Tubulin Alpha antibody (M03989-3). ALKBH5 was detected in immunocytochemical section of A549 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-ALKBH5 Antibody (A03360) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

1 Publications Citing This Product

1. PubMed ID: 10.1002/smt.202001045, RNA m6A Modification Alteration by Black Phosphorus Quantum Dots Regulates Cell Ferroptosis: Implications for Nanotoxicological Assessment

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Anti-ALKBH5 Antibody

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