

Anti-KAT9/ELP3 Antibody Picoband® (monoclonal, 8B4)

Catalog Number: M02833-1

About ELP3

Elongator complex protein 3, also named KAT9, is a protein that in humans is encoded by the ELP3 gene. It is mapped to 8p21.1. ELP3 is the catalytic histone acetyltransferase subunit of the RNA polymerase II elongator complex, which is a component of the RNA polymerase II (Pol II) holoenzyme and is involved in transcriptional elongation. ELP3 supports the migration and branching of projection neurons through acetylation of alpha-tubulin in the developing cerebral cortex. In mammals, ELP3 is important for paternal DNA demethylation after fertilization. ELP3 is potentially involved in cellular redox homeostasis by mediating the acetylation of glucose-6-phosphate dehydrogenase. Besides, ELP3 may play a role in chromatin remodeling and is involved in acetylation of histones H3 and probably H4.

Overview

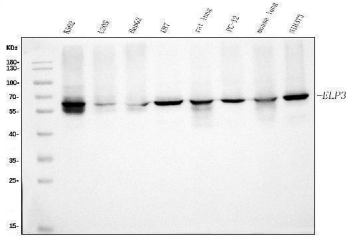
Product Name	Anti-KAT9/ELP3 Antibody Picoband® (monoclonal, 8B4)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-KAT9/ELP3 Antibody Picoband® (monoclonal, 8B4) catalog # M02833-1. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this 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	WB
Clonality	Monoclonal 8B4
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg 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	Mouse
Uniprot ID	Q9H9T3

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human KAT9/ELP3, identical to the related mouse sequence.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2a

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, Mouse, Rat

Anti-KAT9/ELP3 Antibody Picoband® (monoclonal, 8B4) (M02833-1) Images



Western blot analysis of KAT9/ELP3 using anti-KAT9/ELP3 antibody (M02833-1). 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 30ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human U20S whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human U87 whole cell lysates, Lane 5: rat lung tissue lysates, Lane 6: rat PC-12 whole cell lysates, Lane 7: mouse lung tissue lysates, Lane 8: mouse NIH/3T3 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-KAT9/ELP3 antigen affinity purified monoclonal antibody (Catalog # M02833-1) 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-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for KAT9/ELP3 at approximately 62KD. The expected band size for KAT9/ELP3 is at 62KD.

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