BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-STAM1 Antibody Picoband®

Catalog Number: A00864-1

About STAM

Signal transducing adapter molecule 1 is a protein that in humans is encoded by the STAM gene. This gene encodes a member of the signal-transducing adaptor molecule family. These proteins mediate downstream signaling of cytokine receptors and also play a role in ER to Golgi trafficking by interacting with the coat protein II complex. The encoded protein also associates with hepatocyte growth factor-regulated substrate to form the endosomal sorting complex required for transport-0 (ESCRT-0), which sorts ubiquitinated membrane proteins to the ESCRT-1 complex for lysosomal degradation. Alternatively spliced transcript variants have been observed for this gene.

Overview

Product Name	Anti-STAM1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-STAM1 Antibody Picoband® catalog # A00864-1. Tested in ELISA, 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	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg NaN_3.
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	Q92783

Technical Details

Immunogen	E. coli-derived human STAM1 recombinant protein (Position: F9-Q254).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml ELISA, 0.1-0.5ug/ml

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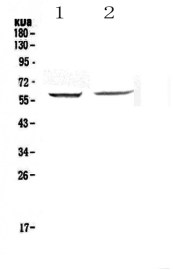
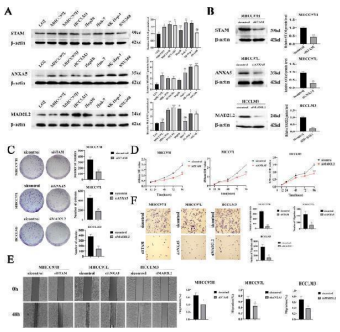
Anti-STAM1 Antibody Picoband® (A00864-1) Images



Western blot analysis of STAM1 using anti-STAM1 antibody (A00864-1). 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 50ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: human PANC-1 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 rabbit anti-STAM1 antigen affinity purified polyclonal antibody (Catalog # A00864-1) at 0.5 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 1:10000 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 STAM1 at approximately 59KD. The expected band size for STAM1 is at 59KD.



Expression of STAM, ANXA5 and MAD2L2 in HCC cell lines. A The expressions of STAM, ANXA5 and MAD2L2 in normal hepatocytes and hepatoma cell lines were detected using Western blotting. Knocking down STAM, ANXA5 and MAD2L2 inhibited the proliferation and migration of HCC cells. B The knockdown efficiency of STAM, ANXA5 and MAD2L2 was detected using Western Blotting. C Plate cloning experiment showed that the number of cloned cell clusters formed by hepatocellular carcinoma cells after knockdown of STAM, ANXA5 and MAD2L2 was significantly reduced; D The results of CCK8 experiment showed that inhibiting the expression of STAM, ANXA5 and MAD2L2 decreased the proliferative ability of HCC cells; E Scratch assay showed that knockdown of STAM, ANXA5 and MAD2L2 inhibited the migration of hepatocellular carcinoma cells; F Transwell experiment showed that the migration ability of hepatocellular carcinoma cells was weakened after inhibiting the expression of STAM, ANXA5 and MAD2L2 .* P

Anti-STAM1 Antibody

For Research Use Only. Not for use in diagnostic procedures.