BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-TAOK1 Antibody Picoband®

Catalog Number: A07063-1

About TAOK1

Enables alpha-tubulin binding activity; beta-tubulin binding activity; and kinase activity. Involved in several processes, including mitotic G2 DNA damage checkpoint signaling; negative regulation of microtubule depolymerization; and positive regulation of MAPK cascade. Located in several cellular components, including microtubule cytoskeleton; nuclear body; and perinuclear region of cytoplasm.

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Overview

Product Name	Anti-TAOK1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TAOK1 Antibody Picoband® catalog # A07063-1. Tested in WB, IP, Flow Cytometry, ELISA 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, Flow Cytometry, IP, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q7L7X3

Technical Details

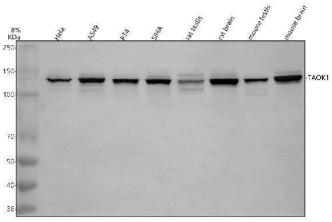
Immunogen	E.coli-derived human TAOK1 recombinant protein (Position: Q424-R884). Human TAOK1 shares 99.8% and 99.6% amino acid (aa) sequence identity with mouse and rat TAOK1, respectively.
Form	Lyophilized

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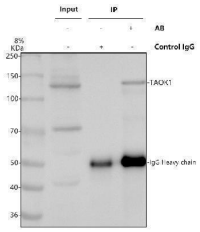
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunoprecipitation, 0.5-2 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human ELISA, 0.1-0.5 ug/ml Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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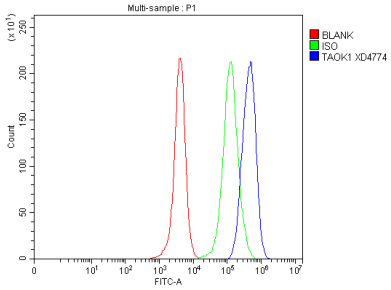
Anti-TAOK1 Antibody Picoband® (A07063-1) Images



Western blot analysis of TAOK1 using anti-TAOK1 antibody (A07063-1). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human RT4 whole cell lysates, Lane 4: human SIHA whole cell lysates, Lane 5: rat testis tissue lysates, Lane 6: rat brain tissue lysates, Lane 7: mouse testis tissue lysates, Lane 8: mouse brain tissue 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-TAOK1 antigen affinity purified polyclonal antibody (A07063-1) 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 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for TAOK1 at approximately 130 kDa. The expected band size for TAOK1 is at 116 kDa.



Immunoprecipitating TAOK1 in Hela whole cell lysate. Western blot analysis of TAOK1 using anti-TAOK1 antibody (A07063-1). Lane 1: Hela whole cell lysates (30ug), Lane 2: Rabbit control IgG instead of anti-TAOK1 antibody in Hela whole cell lysate, Lane 3: anti-TAOK1 antibody (2ug) + Hela whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-TAOK1 antigen affinity purified polyclonal antibody (A07063-1) at a dilution of 0.5 ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for TAOK1 at approximately 130 kDa. The expected band size for TAOK1 is at 116 kDa.



Flow Cytometry analysis of HeLa cells using anti-TAOK1 antibody (A07063-1). Overlay histogram showing HeLa cells stained with A07063-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TAOK1 Antibody (A07063-1, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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