BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-Cingulin/CGN Antibody

Catalog Number: A02373-1

About CGN

Cingulin is a component of the cytoplasmic plaque of tight junction, and is localized on the cytoplasmic face of tight junctions of polarized epithelia and some endothelia. Cingulin is a homodimer, each subunit containing a globular "head" domain, a coiled-coil "rod" domain and a small globular "tail" region. Cingulin can interact interact with ZO-1, ZO-2, ZO-3, actin, and myosin. It probably plays a role in the formation and regulation of the tight junction paracellular permeability barrier.

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Overview

Product Name	Anti-Cingulin/CGN Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cingulin/CGN Antibody catalog # A02373-1. Tested in WB, IHC, IP, ELISA applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IP, IHC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg stabilizing protein and 50% glycerol *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt□-20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q9P2M7

Technical Details

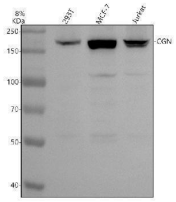
Immunogen	E.coli-derived human Cingulin/CGN recombinant protein (Position: E3-G347).
Form	Liquid

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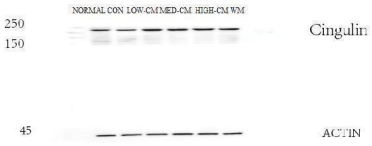
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-400 ImmunoPrecipitation, 1:250-300 ELISA, 1:100-1000

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Anti-Cingulin/CGN Antibody (A02373-1) Images



Western blot analysis of Cingulin/CGN using anti-Cingulin/CGN antibody (A02373-1). 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 293T whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human Jurkat 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-Cingulin/CGN antigen affinity purified polyclonal antibody (A02373-1) at 1:1000 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 Cingulin/CGN at approximately 150 kDa. The expected band size for Cingulin/CGN is at 136 kDa.



Western blot analysis of Cingulin/CGN using anti-Cingulin/CGN antibody (A02373-1). 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: normal group-rat colon tissue lysates, Lane 2: control group-model rat colon tissue lysates, Lane 3: low dose Chinese medicine group-model rat colon tissue lysates, Lane 4: medium dose Chinese medicine group-model rat colon tissue lysates, Lane 5: high dose Chinese medicine group-model rat colon tissue lysates, Lane 6: western medicine group-model rat colon 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-Cingulin/CGN antigen affinity purified polyclonal antibody (A02373-1) at 1:1000 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 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with ChemiDoc MP system. The expected band size for Cingulin/CGN is at 136 kDa.

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