

Datasheet for ABIN3030172
anti-BOC antibody (AA 1002-1020)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	BOC
Binding Specificity:	AA 1002-1020
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BOC antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Amino acids 1002-1020 (DDSTHQLLPQDCCHLQKQ-mouse) were used as the immunogen for this BOC antibody (100% rat homology).
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	BOC
Alternative Name:	BOC (BOC Products)
Background:	Brother Of CDO, also known as 'Brother of CDON' and BOC are cell surface receptors of the immunoglobulin(Ig)/fibronectin type III repeat family involved in myogenic differentiation. CDON and BOC are coexpressed during development, form complexes with each other in a cis

Target Details

fashion, and are related to each other in their ectodomains, but each has a unique long cytoplasmic tail. The domain structure of BOC is similar to that of CDON, and the proteins share 38 to 80 % amino acid identity in the individual extracellular domains. The International Radiation Hybrid Mapping Consortium mapped the gene to chromosome 3. In contrast with CDON, the intracellular region of BOC was not essential for its ability to positively regulate differentiation. BOC is dependent on CDON for activity and that CDON/BOC complexes function to regulate myogenic differentiation. Wegorzewska et al.(2003) proposed that CDO and BOC play a role in the inverse relationship between differentiation and transformation of cells in the skeletal muscle lineage. The protein is expressed by commissural neurons, and targeted disruption of it in mouse resulted in the misguidance of commissural axons toward the floor plate.

UniProt: [Q6AZB0](#)

Pathways: [Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development](#)

Application Details

Application Notes: The stated application concentrations are suggested starting amounts. Titration of the BOC antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL

Restrictions: For Research Use only

Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

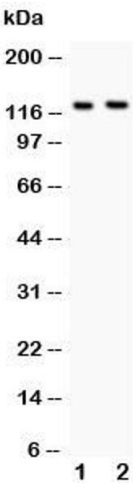
Storage: -20 °C

Storage Comment: After reconstitution, the BOC antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.



Western Blotting

Image 1. Western blot testing of BOC antibody and Lane 1: mouse brain; 2: NIH3T3 lysate. Predicted size ~121KD



Western Blotting

Image 2. Western blot testing of BOC antibody and Lane 1: mouse brain