BOSTER
antibody and ELISA experts

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Anti-Dynamin-1-like protein DNM1L Antibody

Catalog Number: A00556

About DNM1L

The Dynamin-1-like protein (DNM1L) is a member of the dynamin superfamily of GTPases (1). DNM1L mediates mitochondrial and peroxisomal division, and is involved in developmentally regulated apoptosis and programmed necrosis (2). Dysfunction of this gene is implicated in several neurological disorders, including Alzheimer's disease. Mutations in this gene are associated with the autosomal dominant disorder, encephalopathy, lethal, due to defective mitochondrial and peroxisomal fission (EMPF) (3).

Overview

Product Name	Anti-Dynamin-1-like protein DNM1L Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Dynamin-1-like protein DNM1L Antibody (Catalog # A00556). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	DNM1L antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	DNM1L antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit
Uniprot ID	O00429

Technical Details

Immunogen	DNM1L antibody was raised against a 19 amino acid peptide near the center of human DNM1L. The immunogen is located within amino acids 530 - 580 of DNM1L.
Predicted Reactive Species	Bovine, Rat
Cross Reactivity	DNM1L antibody is human and mouse reactive. At least four isoforms of DNM1L are known to exist; this antibody will detect the two longest isoforms.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	DNM1L antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	DNM1L antibody can be used for detection of DNM1L by Western blot at 1 - 2 ug/ml. Antibody can

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	also be used for Immunocytochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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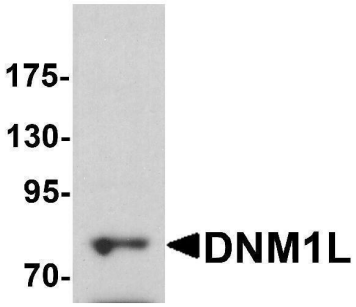
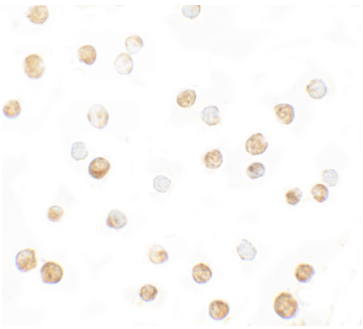
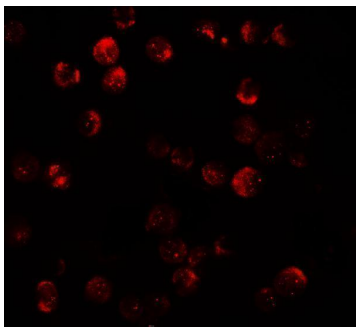
Anti-Dynamin-1-like protein DNM1L Antibody (A00556) Images



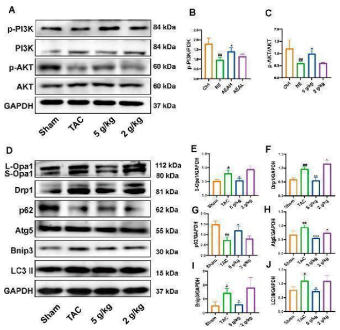
Western blot analysis of DNM1L in HeLa cell lysate with DNM1L antibody at 1 ug/ml.



Immunocytochemistry of DNM1L in HeLa cells with DNM1L antibody at 5 ug/mL.



Immunofluorescence of DNM1L in HeLa cells with DNM1L antibody at 20 ug/mL.



AEA improved CHF via PI3K/AKT/Bnip3 axis. (A) Representative images of PI3K/AKT axis. (B, C) The phosphorylation level of PI3K and AKT. (D) Representative images of Opa1, Drp1, Bnip3, p62, Atg5 and LC3II. (E–J) The expression level of Opa1, Drp1, Bnip3, p62, Atg5 and LC3II. (n = 3).Index in PubMed under a CC BY license. PMID: 40206063

AEA improved NE-induced injuries via PI3K/AKT/Bnip3 axis. (A) Representative images of PI3K/AKT axis in H9c2 cells. (B, C) The phosphorylation level of PI3K and AKT. (D) Representative images of Opa1, Drp1, TrxR2, Bnip3, p62, Atg5 and LC3II in cells. (E–K) The expression level of Opa1, Drp1, TrxR2, Bnip3, p62, Atg5 and LC3II in H9c2 cells. (n = 3).Index in PubMed under a CC BY license. PMID: 40206063

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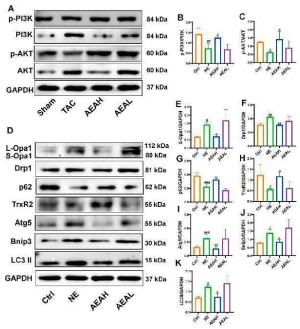

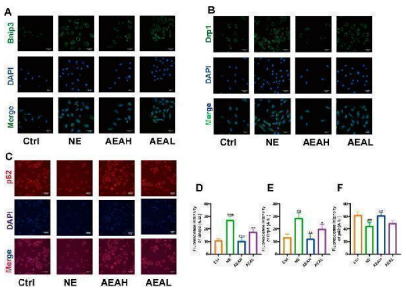

Immunofluorescence of Bnip3, Drp1, and p62 in H9c2 cells. (A) Immunofluorescence of Bnip3. (B) Immunofluorescence of Drp1. (C) Immunofluorescence of p62. (D) Quantitative analysis of Bnip3. (E) Quantitative analysis of Drp1. (F) Quantitative analysis of p62. (n = 3).Index in PubMed under a CC BY license. PMID: 40206063

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