

Product datasheet

Anti-beta Dystroglycan (phospho Y892) antibody [M117] ab29037

[2 Images](#)

Overview

Product name	Anti-beta Dystroglycan (phospho Y892) antibody [M117]
Description	Mouse monoclonal [M117] to beta Dystroglycan (phospho Y892)
Host species	Mouse
Specificity	Ab29037 recognises beta Dystroglycan (phospho Y892).
Tested applications	Suitable for: WB, ELISA
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide conjugated to KLH corresponding to amino acid residues around tyrosine 892 of human dystroglycan.
Positive control	HepG2 cells or HeLa cells treated with pervanadate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium Azide. Constituents: 50% Glycerol, PBS, 1mg/ml BSA.
Purity	Protein A purified
Clonality	Monoclonal
Clone number	M117
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab29037** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		

Application	Abreviews	Notes
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ELISA

Application notes

ELISA: 1/2000.
 WB: 1/1000. Membrane was incubated with diluted antibody in 5% non fat milk, PBS, 0.04% Tween 20 for 1 hour at room temperature. Predicted molecular weight: 97 kDa (Dystroglycan is expressed as a precursor protein that is cleaved into alpha and beta dystroglycan. The beta dystroglycan fragment is about 43 kDa).

Not yet tested in other applications.
 Optimal dilutions/concentrations should be determined by the end user.

Target

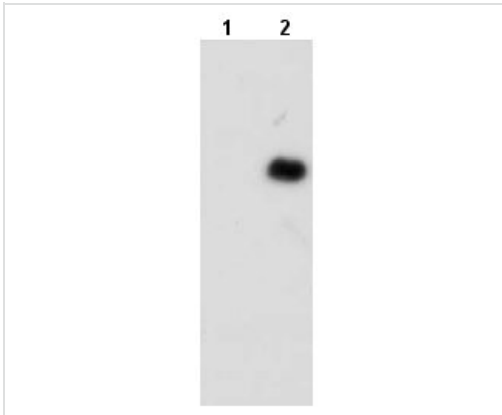
Relevance

Dystroglycans are essential elements of the neuromuscular junction (NMJ). The gene for dystroglycan is expressed as a precursor protein that is post translationally cleaved into a 156 kDa extracellular peripheral membrane protein called alpha dystroglycan and a 43 kDa transmembrane protein, beta dystroglycan. The latter protein contains a PPxY motif that promotes binding to WW domain containing proteins, such as utrophin and dystrophin. Phosphorylation at tyrosine 892 within the PPxY motif may regulate c Src interactions with beta dystroglycan, as well as inhibit interactions with WW domain proteins. In skeletal muscle, beta dystroglycan is normally localized to the plasma membrane, however phosphorylation of Tyr892 leads to localization of beta dystroglycan to endosomal compartments along with c Src. Thus, phosphorylation at Tyr892 may have important roles in altering the localization of beta dystroglycan during NMJ formation.

Cellular localization

Type I membrane protein.

Images



Western blot - Anti-beta Dystroglycan (phospho Y892) antibody [M117] (ab29037)

All lanes : Anti-beta Dystroglycan (phospho Y892) antibody [M117] (ab29037)

Lane 1 : Lysates from HepG2 cells (untreated)

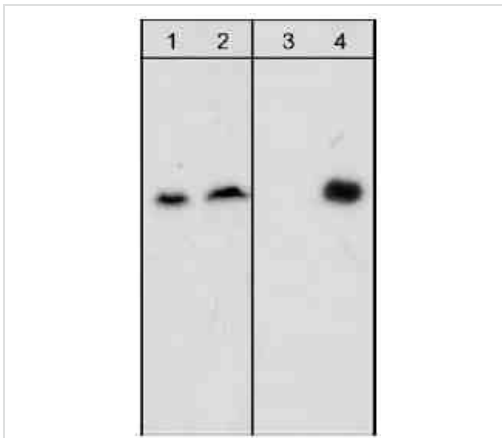
Lane 2 : Lysates from HepG2 cells treated with pervanadate (1 mM) for 30 min

Lysates/proteins at 20 µg per lane.

Predicted band size: 97 kDa

Observed band size: 43 kDa

Dystroglycan is expressed as a precursor protein (97kDa) that is cleaved into alpha and beta dystroglycan. The beta dystroglycan fragment is about 43 kDa.



Western blot - Anti-beta Dystroglycan (phospho Y892) antibody [M117] (ab29037)

Western blot analysis of HepG2 cells untreated (lanes 1 & 3) or treated with pervanadate (1 mM) for 30 min (lanes 2 & 4). Blots were probed with anti-beta-dystroglycan (lanes 1 & 2) and anti-beta-dystroglycan (Tyr-892) (lanes 3 & 4).

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