

Anti-β-Dystroglycan (Tyr-892), Phosphospecific Antibody Catalog # AN1751

### **Specification**

## Anti-β-Dystroglycan (Tyr-892), Phosphospecific Antibody - Product Information

Primary Accession Reactivity Host Clonality Isotype Calculated MW <u>014118</u> Bovine Mouse Mouse Monoclonal IgG1 97441

### Anti-β-Dystroglycan (Tyr-892), Phosphospecific Antibody - Additional Information

#### Gene ID

1605

Target/Specificity

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 Tyr-892 leads to localization of  $\beta$ -Dystroglycan to endosomal compartments along with c-Src. Thus, phosphorylation at Tyr-892 may have important roles in altering the localization of  $\beta$ -Dystroglycan during NMJ formation.

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Anti- $\beta$ -Dystroglycan (Tyr-892), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping Blue Ice

## Anti-β-Dystroglycan (Tyr-892), Phosphospecific Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation



Flow Cytomety

<u>Cell Culture</u>

Anti-β-Dystroglycan (Tyr-892), Phosphospecific Antibody - Images



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).

# Anti-β-Dystroglycan (Tyr-892), Phosphospecific Antibody - Background

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