

Anti- β -Dystroglycan (Tyr-892), Phosphospecific Antibody
Catalog # AN1751**Specification****Anti- β -Dystroglycan (Tyr-892), Phosphospecific Antibody - Product Information**

Primary Accession	O14118
Reactivity	Bovine
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Calculated MW	97441

Anti- β -Dystroglycan (Tyr-892), Phosphospecific Antibody - Additional InformationGene 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 α -dystroglycan and a 43 kDa transmembrane protein, β -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 β -Dystroglycan, as well as inhibit interactions with WW domain proteins. In skeletal muscle, β -Dystroglycan is normally localized to the plasma membrane, however phosphorylation of Tyr-892 leads to localization of β -Dystroglycan to endosomal compartments along with c-Src. Thus, phosphorylation at Tyr-892 may have important roles in altering the localization of β -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- β -Dystroglycan (Tyr-892), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

Blue Ice

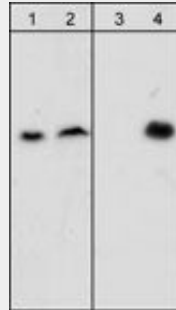
Anti- β -Dystroglycan (Tyr-892), Phosphospecific Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

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- β -Dystroglycan (lanes 1 & 2) and anti- β -Dystroglycan (Tyr-892) (lanes 3 & 4).

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

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 α -dystroglycan and a 43 kDa transmembrane protein, β -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 β -Dystroglycan, as well as inhibit interactions with WW domain proteins. In skeletal muscle, β -Dystroglycan is normally localized to the plasma membrane, however phosphorylation of Tyr-892 leads to localization of β -Dystroglycan to endosomal compartments along with c-Src. Thus, phosphorylation at Tyr-892 may have important roles in altering the localization of β -Dystroglycan during NMJ formation.