


# Anti-beta Dystroglycan antibody ab43125

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### 概述

产品名称	Anti-beta Dystroglycan抗体
描述	兔多克隆抗体to beta Dystroglycan
宿主	Rabbit
经测试应用	适用于: WB
种属反应性	与反应: Human 预测可用于: Mouse, Rabbit, Cow, Dog 
免疫原	Synthetic peptide conjugated to KLH derived from within residues 650 - 750 of Human Dystroglycan precursor. 参阅Abcam的专有抗源政策(Peptide available as <a href="#">ab43750</a> .)
阳性对照	WB: Human brain, heart, skeletal muscle, testes (data not shown), kidney (data not shown), colon (data not shown) tissue lysates and HEK293T cell lysate.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
纯度	Immunogen affinity purified

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

克隆 多克隆  
同种型 IgG

## 应用

**The Abpromise guarantee** **Abpromise™**承诺保证使用ab43125于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

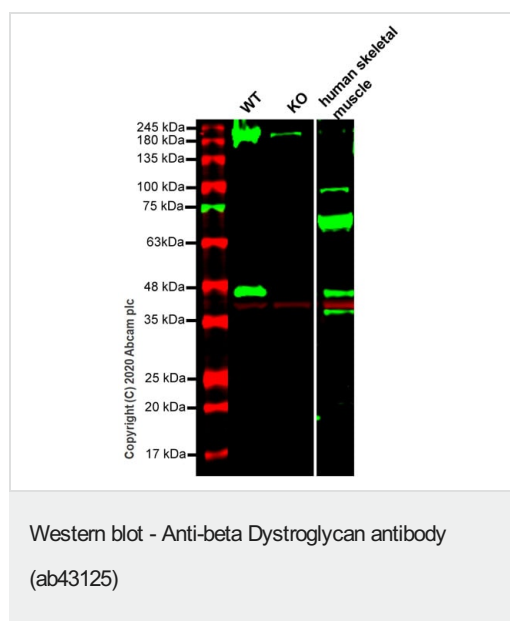
应用	Ab评论	说明
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 43 kDa (predicted molecular weight: 43 kDa).

## 靶标

**相关性** 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.

**细胞定位** Type I membrane protein.

## 图片



**All lanes** : Anti-beta Dystroglycan antibody (ab43125) at 1/500 dilution

**Lane 1** : Wild-type HEK293T cell lysate

**Lane 2** : DAG1 knockout HEK293T cell lysate

**Lane 3** : Human skeletal muscle tissue lysate

Lysates/proteins at 20 µg per lane.

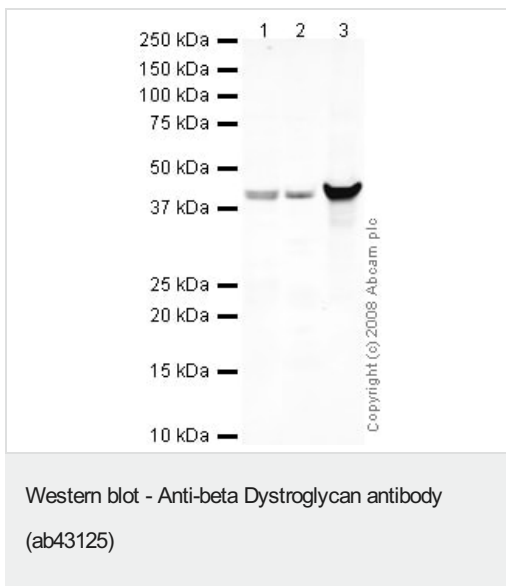
Performed under reducing conditions.

**Predicted band size:** 43 kDa

**Observed band size:** 43 kDa

**Lanes 1-3:** Merged signal (red and green). Green - ab43125 observed at 43 kDa. Red - loading control, **ab8245** observed at 37 kDa.

ab43125 Anti-beta Dystroglycan antibody was shown to specifically react with beta Dystroglycan in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266263** (knockout cell lysate **ab257192**) was used. Wild-type and beta Dystroglycan knockout samples were subjected to SDS-PAGE. ab43125 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



**All lanes :** Anti-beta Dystroglycan antibody (ab43125) at 1 µg/ml

**Lane 1 :** Human brain tissue lysate - total protein (**ab29466**)

**Lane 2 :** Human heart tissue lysate - total protein (**ab29431**)

**Lane 3 :** Human skeletal muscle tissue lysate - total protein (**ab29330**)

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 43 kDa

**Observed band size:** 43 kDa

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