abcam

Product datasheet

Anti-Dystrophin antibody [MANDRA1] ab7164

★★★★★ 1 Abreviews 23 References 1 图像

概述

产品名称	Anti-Dystrophin抗体[MANDRA1]
描述	**小鼠单克隆抗体**[MANDRA1] to Dystrophin
宿主	Mouse
经测试应用	**适用于:** IHC-Fr, WB, ELISA, ICC/IF **不适用于:** IHC-P
种属反应性	**与反应:** Mouse, Rat, Human, Fish
免疫原	Recombinant fragment within Human Dystrophin aa 3200-3700. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements.
表位	128 amino acids at the end of the C-terminal domain of the human dystrophin molecule (a.a. residues 3558-3684).
阳性对照	lympho blastoid cells, cultures of brain astroglial and neuronal cells, liver and Hep G2 cells
常规说明	The C-terminal domain of the human dystrophin molecule (a.a. residues 3558-3684) is present in normal muscle tissue. It is also present in nearly all Becker muscular dystrophies, but is absent in cases of Duchenne muscular dystrophies and in the dystrophic mouse (mdx). This product was changed from ascites to tissue culture supernatant on 17 May 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team. 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. 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&As

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	Preservative: 0.0975% Sodium azide Constituent: 0.411% PBS
纯度	Proprietary Purification
纯化说明	Purified from culture supernatant of hybridoma cells with proprietary method.
Primary antibody说明	The C-terminal domain of the human dystrophin molecule (a.a. residues 3558-3684) is present in normal muscle tissue. It is also present in nearly all Becker muscular dystrophies, but is absent in cases of Duchenne muscular dystrophies and in the dystrophic mouse (mdx).
克隆	单克隆
克隆编号	MANDRA1
同种型	IgG1

应用

The Abpromise guarantee Abpromise™承诺保证使用ab7164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
IHC-Fr		Use at an assay dependent concentration.
WB	★★★★★ (1)	Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration. PubMed: 22869749

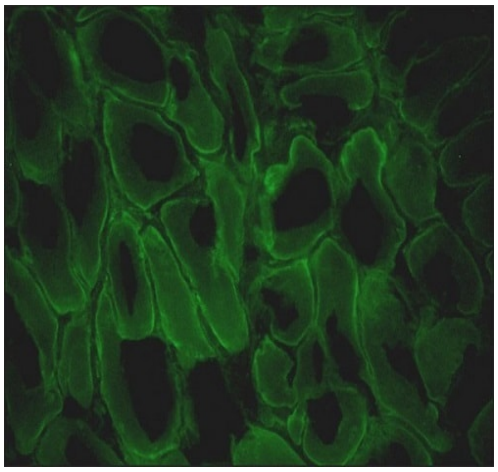
应用说明	Is unsuitable for IHC-P.

靶标

功能	Anchors the extracellular matrix to the cytoskeleton via F-actin. Ligand for dystroglycan. Component of the dystrophin-associated glycoprotein complex which accumulates at the neuromuscular junction (NMJ) and at a variety of synapses in the peripheral and central nervous systems and has a structural function in stabilizing the sarcolemma. Also implicated in signaling events and synaptic transmission.
组织特异性	Expressed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma. Expressed in brain, muscle, kidney, lung and testis. Isoform 5 is expressed in heart, brain, liver, testis and hepatoma cells. Most tissues contain transcripts of multiple isoforms, however only isoform 5 is detected in heart and liver.
疾病相关	Defects in DMD are the cause of Duchenne muscular dystrophy (DMD) [MIM:310200]. DMD is the most common form of muscular dystrophy; a sex-linked recessive disorder. It typically presents in boys aged 3 to 7 year as proximal muscle weakness causing waddling gait, toe-walking, lordosis, frequent falls, and difficulty in standing up and climbing up stairs. The pelvic girdle is affected first, then the shoulder girdle. Progression is steady and most patients are confined to a wheelchair by age of 10 or 12. Flexion contractures and scoliosis ultimately occur.

	About 50% of patients have a lower IQ than their genetic expectations would suggest. There is no treatment. Defects in DMD are the cause of Becker muscular dystrophy (BMD) [MIM:300376]. BMD resembles DMD in hereditary and clinical features but is later in onset and more benign. Defects in DMD are a cause of cardiomyopathy dilated X-linked type 3B (CMD3B) [MIM:302045]; also known as X-linked dilated cardiomyopathy (XLCM). Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.
序列相似性	Contains 2 CH (calponin-homology) domains. Contains 22 spectrin repeats. Contains 1 WW domain. Contains 1 ZZ-type zinc finger.
细胞定位	Cell membrane > sarcolemma. Cytoplasm > cytoskeleton.

图片



Immunohistochemistry (Frozen sections) - Anti-Dystrophin antibody [MANDRA1] (ab7164)

ab7164 staining Dystrophin in frozen human tongue tissue sections by Immunohistochemistry (IHC - Fr- Frozen sections). Samples were incubated 1:100 dilution. A Goat Anti-mouse, FITC- conjugate was used as the secondary antibody.

This image was generated using the ascites version of the product.

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