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Product datasheet

Anti-Actin antibody [ACTN05] (Biotin) ab79667

概述

产品名称	Anti-Actin抗体[ACTN05] (Biotin)
描述	小鼠单克隆抗体[ACTN05] to Actin (Biotin)
宿主	Mouse
偶联物	Biotin
特异性	Reacts with all six known vertebrate isoforms of actin (MW~42kDa). Also reacts with two cytoplasmic actins (beta, gamma) which are highly homologous to one another but differ from the muscle actins at about 25 amino acid residues.
经测试应用	**适用于:** WB, IP, IHC-P
种属反应性	**与反应:** Mouse, Rat, Rabbit, Chicken, Cow, Dog, Human, Pig, Dictyostelium discoideum, Physarum polycephalum
免疫原	Chicken gizzard Actin
阳性对照	HeLa cells. Skeletal muscle.
常规说明	Highly recommended for monitoring total protein load on Western blots.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.09% Sodium azide Constituents: PBS, 0.2% BSA
纯度	Protein G purified
Primary antibody说明	Highly recommended for monitoring total protein load on Western blots.
克隆	单克隆
克隆编号	ACTN05
同种型	IgG1
轻链类型	kappa

应用

Our Abpromise guarantee covers the use of **ab79667** in the following tested applications.

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

应用	Ab评论	说明
WB		Use a concentration of 0.5 µg/ml. Detects a band of approximately 42 kDa (predicted molecular weight: 42 kDa). Use for 2hrs at RT.
IP		Use at 2 µg/mg of lysate. Verified on denatured Actin. Use protein G.
IHC-P		1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Use for 30 min with LV's UltraVision. Boil tissue sections in 10mM citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.

靶标

功能	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
疾病相关	Defects in ACTA1 are the cause of nemaline myopathy type 3 (NEM3) [MIM:161800]. A form of nemaline myopathy. Nemaline myopathies are muscular disorders characterized by muscle weakness of varying severity and onset, and abnormal thread-or rod-like structures in muscle fibers on histologic examination. The phenotype at histological level is variable. Some patients present areas devoid of oxidative activity containg (cores) within myofibers. Core lesions are unstructured and poorly circumscribed. Defects in ACTA1 are a cause of myopathy congenital with excess of thin myofilaments (MPCETM) [MIM:161800]. A congenital muscular disorder characterized at histological level by areas of sarcoplasm devoid of normal myofibrils and mitochondria, and replaced with dense masses of thin filaments. Central cores, rods, ragged red fibers, and necrosis are absent. Defects in ACTA1 are a cause of congenital myopathy with fiber-type disproportion (CFTD) [MIM:255310]; also known as congenital fiber-type disproportion myopathy (CFTDM). CFTD is a genetically heterogeneous disorder in which there is relative hypotrophy of type 1 muscle fibers compared to type 2 fibers on skeletal muscle biopsy. However, these findings are not specific and can be found in many different myopathic and neuropathic conditions.
序列相似性	Belongs to the actin family.
细胞定位	Cytoplasm > cytoskeleton.

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