ANTIBODIES ONLINE

Datasheet for ABIN4886420 anti-ACTN3 antibody (C-Term)

4 Images



Overview

100 µg				
ACTN3				
AA 574-617, C-Term				
Human, Mouse, Rat				
Rabbit				
Polyclonal				
Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))				
Rabbit IgG polyclonal antibody for Alpha-actinin-3(ACTN3) detection. Tested with WB, IHC-P in Human,Mouse,Rat.				
A synthetic peptide corresponding to a sequence at the C-terminus of human ACTN3 (574- 617aa EADRERGAIMGIQGEIQKICQTYGLRPCSTNPYITLSPQDINT K), different from the related mouse sequence by five amino acids.				
EADRERGAIM GIQGEIQKIC QTYGLRPCST NPYITLSPQD INT				
IgG				
No cross reactivity with other proteins.				
Rabbit IgG polyclonal antibody for Alpha-actinin-3(ACTN3) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: actinin alpha 3 (gene/pseudogene) Protein Name: Alpha-actinin-3				

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN4886420 | 07/25/2024 | Copyright antibodies-online. All rights reserved.

Product Details

Purification:

Immunogen affinity purified.

Target Details

Target:	ACTN3
Alternative Name:	ACTN3 (ACTN3 Products)
Background:	Alpha-actinin-3, also known as alpha-actinin skeletal muscle isoform 3 or F-actin cross-linking protein, is a protein that in humans is encoded by the ACTN3 gene. This gene encodes a member of the alpha-actin binding protein gene family. The encoded protein is primarily expressed in skeletal muscle and functions as a structural component of sarcomeric Z line. This protein is involved in crosslinking actin containing thin filaments. An allelic polymorphism in this gene results in both coding and non-coding variants, the reference genome represents the coding allele. The non-functional allele of this gene is associated with elite athlete status.

Synonyms: Actinin alpha 3 | Alpha-Actinin 3 | Alpha-actinin-3 | ACTN 3 | ACTN3 | Q08043

Gene ID:	89
UniProt:	Q08043
Pathways:	Cell-Cell Junction Organization

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat			
	IHC-P: Concentration: 0.5-1 μ g/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by			
	Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the			
	staining of formalin/paraffin sections.			
	Notes: Tested Species: Species with positive results. Other applications have not been tested.			
	Optimal dilutions should be determined by end users.			
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by			
	ABIN921231 in IHC(P).			
Restrictions:	For Research Use only			
Handling				

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN4886420 | 07/25/2024 | Copyright antibodies-online. All rights reserved.

Handling

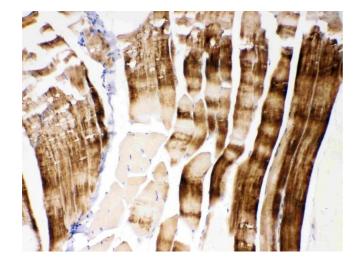
Concentration:	500 µg/mL					
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.					
Preservative:	Sodium azide					
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.					
Handling Advice:	Avoid repeated freezing and thawing.					
Storage:	4 °C/-20 °C					
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.					

Images

130KD -	1	2	3	
100KD —	-	-	-	ACTN3
70KD -				
55KD -				
35KD -				
25KD -				

Western Blotting

Image 1. Western blot analysis of ACTN3/Alpha Actinin 3 using anti-ACTN3/Alpha Actinin 3 antibody Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat skeletal muscle tissue lysates, Lane 2: mouse skeletal muscle tissue lysates, Lane 3: HT080 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- ACTN3/Alpha Actinin 3 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat antirabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was



detected for ACTN3/Alpha Actinin 3 at approximately 103KD. The expected band size for ACTN3/Alpha Actinin 3 is at 103KD.

Immunohistochemistry

Image 2. IHC analysis of ACTN3/Alpha Actinin 3 using anti-ACTN3/Alpha Actinin 3 antibody . ACTN3/Alpha Actinin 3 was detected in paraffin-embedded section of mouse skeletal muscle tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti- ACTN3/Alpha Actinin 3 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Immunohistochemistry

Image 3. IHC analysis of ACTN3/Alpha Actinin 3 using anti-ACTN3/Alpha Actinin 3 antibody . ACTN3/Alpha Actinin 3 was detected in paraffin-embedded section of rat skeletal muscle tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti- ACTN3/Alpha Actinin 3 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog *#* SA1022) with DAB as the chromogen.

Please check the product details page for more images. Overall 4 images are available for ABIN4886420.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN4886420 | 07/25/2024 | Copyright antibodies-online. All rights reserved.

