

ACTN2 Monoclonal antibody

Catalog Number: 68223-1-Ig 1 Publications

Basic Information

Catalog Number:

68223-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG5578

GenBank Accession Number:

BC051770

GeneID (NCBI):

88

UNIPROT ID:

P35609

Full Name:

actinin, alpha 2

Calculated MW:

104 kDa

Observed MW:

103 kDa

Purification Method:

Protein A purification

CloneNo.:

1D5F9

Recommended Dilutions:

WB 1:20000-1:100000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

Human, mouse, rat, pig, rabbit

Cited Species:

mouse

Positive Controls:**WB** : pig heart tissue, rat colon tissue, rabbit heart tissue, rat heart tissue, mouse heart tissue, pig colon tissue

Background Information

Alpha actinin 2 (ACTN2) belongs to the alpha-actinin family and is expressed in both skeletal and cardiac muscles and functions to anchor myofibrillar actin thin filaments and titin to Z-discs (PMID: 30701273). ACTN2 is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. Mutations in ACTN2 are associated with hypertrophic cardiomyopathy, as well as dilated cardiomyopathy and endocardial fibroelastosis (PMID: 20022194, 14567970).

Notable Publications

Author	Pubmed ID	Journal	Application
Shan Gao	38495825	iScience	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

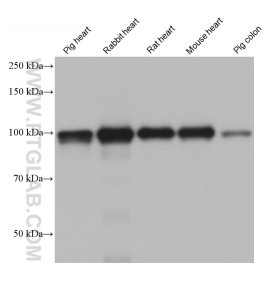
For technical support and original validation data for this product please contact:

T: 4006900926

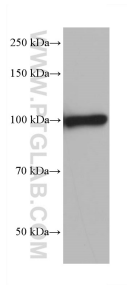
E: Proteintech-CN@ptglab.comW: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68223-1-Ig (ACTN2 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



rat colon tissue were subjected to SDS PAGE followed by western blot with 68223-1-Ig (ACTN2 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.