For Research Use Only

ACTN2 Monoclonal antibody

Catalog Number: 68223-1-Ig



Basic Information

Catalog Number: GenBank Accession Number:

68223-1-lg BC051770 GeneID (NCBI):

150ul, Concentration: 1000 µg/ml by 88

Full Name: Source: actinin, alpha 2 Mouse Calculated MW: Isotype: 104 kDa lgG2b Observed MW: Immunogen Catalog Number: 103 kDa

AG5578

WB, ELISA

Species Specificity:

Human, mouse, rat, pig, rabbit

Purification Method: Protein A purification

CloneNo.: 1D5F9

Recommended Dilutions: WB 1:20000-1:100000

Applications

Tested Applications: Positive Controls:

WB: pig heart tissue, rat colon tissue, rabbit heart tissue, rat heart tissue, mouse heart tissue, pig colon

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 actinbinding 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).

Storage

Storage:

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

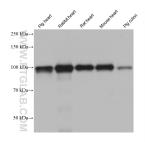
Storage Buffer:

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

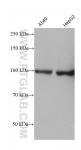
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

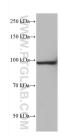
Selected Validation Data



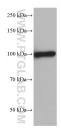
Various lysates were subjected to SDS PAGE followed by western blot with 68223-1-1g (ACTN2 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



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