

For Research Use Only

ACTN2 Monoclonal antibody, PBS Only



Catalog Number: 68223-1-PBS

Basic Information

Catalog Number: 68223-1-PBS	GenBank Accession Number: BC051770	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 88	CloneNo.: 1D5F9
Source: Mouse	UNIPROT ID: P35609	
Isotype: IgG2b	Full Name: actinin, alpha 2	
Immunogen Catalog Number: AG5578	Calculated MW: 104 kDa	
	Observed MW: 103 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
Human, mouse, rat, pig, rabbit

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).

Storage

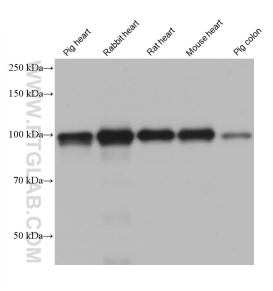
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

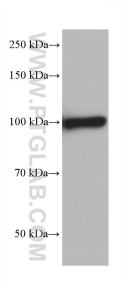
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



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. This data was developed using the same antibody clone with 68223-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 68223-1-PBS in a different storage buffer formulation.