

CAPZA1 Polyclonal antibody

Catalog Number: 55145-1-AP

Basic Information

Catalog Number:

55145-1-AP

Size:

750 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_006135

GeneID (NCBI):

829

UNIPROT ID:

P52907

Full Name:

capping protein (actin filament)
muscle Z-line, alpha 1

Calculated MW:

33 kDa

Observed MW:

34-40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

IHC 1:20-1:200

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

human, mouse

**Note-IHC: suggested antigen retrieval with
TE buffer pH 9.0; (*) Alternatively, antigen
retrieval may be performed with citrate
buffer pH 6.0**

Positive Controls:

WB : human heart tissue, mouse brain tissue, mouse
heart tissue

IHC : human colon cancer tissue, human stomach
cancer tissue

Background Information

CAPZA1 belongs to the F-actin-capping protein alpha subunit family. F-actin-capping proteins bind in a Ca²⁺-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments. The potential for CAPZ is a therapeutic target in the management of heart failure. Future research is required to determine the mechanisms by which changes in CAPZ impact myocardial function and intracellular signalling, and to develop feasible strategies that can manipulate CAPZ in the intact heart. (PMID: 15614336) This antibody is specific to CAPZA1.

Storage

Storage:

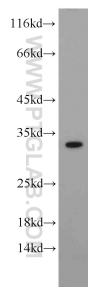
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

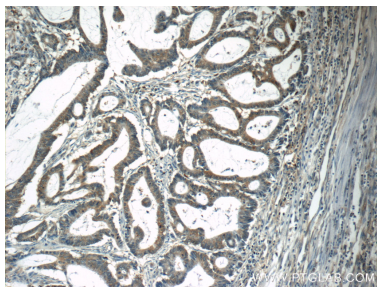
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

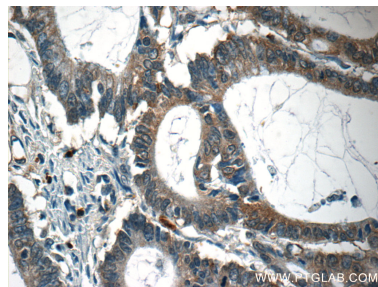
Selected Validation Data



human heart tissue were subjected to SDS PAGE followed by western blot with 55145-1-AP (CAPZA1 antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 55145-1-AP (CAPZA1 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 55145-1-AP (CAPZA1 Antibody) at dilution of 1:50 (under 40x lens).