Mouse (monoclonal)
Anti-Human Filamin-A
Unconjugated
PRODUCT ANALYSIS SHEET

Catalog Number: AHO1402
Lot Number: See product label
Expiration Date: See product label
Quantity/Volume: 100 µg/0.2 mL
Clone Number: 209#13 (also known as Alper-p280)
Isotype: IgG1 κ (mouse)
Form of Antibody: Purified immunoglobulin in phosphate buffered saline, pH 7.2, with 1% bovine serum albumin.
Preservation: 0.1% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)
Purification: Purified from ascites by protein A/G affinity chromatography.
Immunogen: Concentrated culture medium conditioned by MDA.MB.231 breast carcinoma cells.
Specificity: Filamins are a group of ubiquitous cytoplasmic phosphoproteins with molecular weights of approximately 280 kDa. Filamins induce polymerization of actin filaments. In humans, three encoded filamin proteins have been identified: Filamin-A, -B, and -C, which share ~70 percent identity over their amino-acid sequences. Filamin-A, which is capable of cross-linking actin filaments into orthogonal structures, ties actin-filament networks to plasma membrane receptors and acts as a scaffold for intracellular signaling cascades. Filamin-A has also been detected in the tumor cell cytoskeleton. Filamin-A is considered as an important element in regulating cell morphology and motility. Recent data have shown that filamin-A could be a tumor marker in the plasma of cancer patients.
Species Reactivity: Human. Other species not tested.
Applications: This antibody is suitable for use in Western blotting, immunoprecipitation, ELISA, indirect immunofluorescence and immunohistochemistry.
Suggested Working Dilutions: For Western blotting, the recommended concentration is 1 µg/mL. The optimal antibody concentration should be determined for each specific application.
Recommended Positive Control: Culture medium conditioned by MDA.MB.231 cells.
Storage: Store at 2-8°C. For long term storage, aliquot into small volumes and store at –20°C. Avoid repeated freeze-thaw cycles to prevent denaturing the antibody.
References:

Related Product:
Filamin 2 [pS2113] polyclonal antibody  Cat. #   44-1120G

Immunoprecipitation and Western Blot Analysis
Proteins (500 µg) from the breast carcinoma cell line, MDA.MB.231 immunoprecipitated (1 µg/mL) at 4°C with this anti-filamin-A monoclonal antibody (clone Alper-p280) and resolved by SDS-PAGE on 8% polyacrylamide gel and transferred to PVDF. The membranes were blocked by 5% milk/PBST buffer and incubated with Alper-p280 at a concentration of 1 µg/mL for one hour at room temperature in a 5% milk/PBST buffer. After washing, the membranes were incubated with a goat F(ab')2 anti-mouse IgG alkaline phosphatase conjugated antibody (Cat. # AMI4405) at a 1:2000 dilution. Bands were detected with CDP-substrate using the WesternStar™ method (Tropix) and Kodak BioMax film.

Immunohistochemical Analysis
The figure presented at left shows the immunohistochemical staining of paraffin-embedded sections of invasive human breast cancer using the anti-Filamin-A monoclonal antibody (Alper-p280).