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39-1062: Anti-beta-Actin Monoclonal Antibody (Clone: AC-15)

Clonality :	Monoclonal
Clone Name :	AC-15
Application :	WB
Reactivity :	Human
Gene :	Actb
Gene ID :	81822
Uniprot ID :	P60711
Alternative Name :	Actin, cytoplasmic 1; Beta-actin; Actin, cytoplasmic 1, N-terminally processed; Actb
Isotype :	Mouse IgG1
Immunogen Information :	slightly modified beta-cytoplasmic actin N-terminal peptide, Ac-Asp-Asp-Asp-Ile-Ala-Ala-Leu-Val-Ile-Asp-Asn-Gly-Ser-Gly-Lys, conjugated to KLH.

Description

The primary site of action of cytochalasin B on cell motility processes is beta-actin. Habets et al.(1992) generated hybrids that harbor only specific regions of human chromosome 7 and assigned the ACTB locus to 7p15-p12. ACTB and the other assigned beta-actin-related sequences are dispersed over at least four different chromosomes including one locus assigned to the X chromosome. A mutation of beta-actin that alters depolymerization dynamics is associated with autosomal dominant developmental malformations, deafness, and dystonia.

Product Info

Amount :	100 µg/vial
Purification :	Ascites
Content :	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative. Reconstitute : Add 1ml of PBS buffer will yield a concentration of 100ug/ml.
Storage condition :	At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for a longer time. Avoid repeated freezing and thawing.

Application Note

Western blot : 0.25-0.5µg/mlµg/ml; Immunohistochemistry(Paraffin-embedded Section) : 0.5-1µg/ml

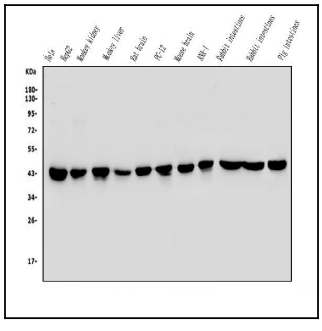


Figure 1. Western blot analysis of beta-Actin using anti-beta-Actin antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50µg of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: monkey kidney tissue lysates, Lane 4: monkey liver tissue lysates, Lane 5: rat brain tissue lysates, Lane 6: rat PC-12 whole cell lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse ANA-1 whole cell lysates, Lane 9: rabbit intestine tissue lysates, Lane 10: rabbit intestine tissue lysates, Lane 11: pig intestine tissue lysates.

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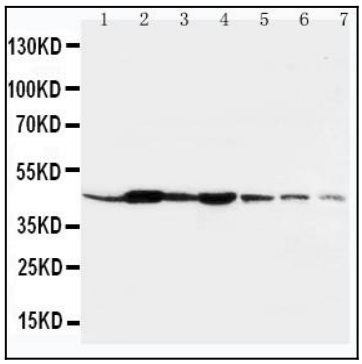


Figure 2: Anti-beta-Actin antibody(monoclonal) 39-1062. Western blotting: Lane 1: Rat Liver Tissue Lysate, Lane 2: Rat Spleen Tissue Lysate, Lane 3: Rat Brain Tissue Lysate, Lane 4: Rat Kidney Tissue Lysate, Lane 5: HELA Cell Lysate, Lane 6: SMMC Cell.

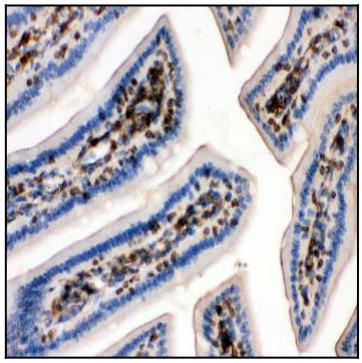


Figure 3: Anti-beta-Actin antibody(monoclonal)39-1062 . IHC(P): Mouse Intestine Tissue.

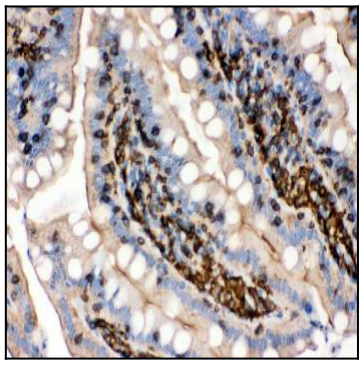


Figure 4: Anti-beta-Actin antibody(monoclonal)39-1062. IHC(P): Rat Intestine Tissue.

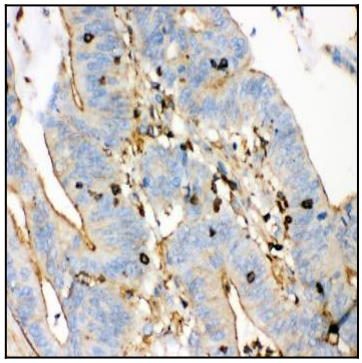


Figure 5: Anti-beta-Actin antibody(monoclonal)39-1062. IHC(P): Human Intestinal Cancer Tissue.

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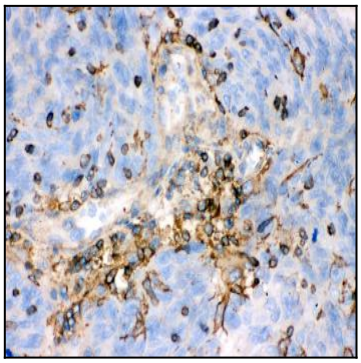


Figure 6: Anti-beta-Actin antibody(monoclonal)39-1062. IHC(P): Human Lung Cancer Tissue.

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