

Basic Information

Product Name	Anti-Beta Actin/ACTB HRP conjugated Antibody
Gene Name	ACTB
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat, monkey, zebrafish, chicken
Tested Application	WB
Contents	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ .
Immunogen	HRP-Beta-Actin antibody was raised against a synthetic peptide containing 16 amino acids near the amino terminus of beta-actin.
Concentration	0.5 mg/mL
Purification	HRP-Beta-Actin antibody is affinity chromatography purified via peptide column.
Observed MW	42 kDa
Dilution Ratios	Western blot (WB):1:1000-5000

Storage

HRP-Beta-Actin antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Background Information

Actins are highly conserved proteins that are involved in cell motility, structure and integrity, processes that are crucial for tissue development and the development of organism. The actin cytoskeleton is one of the principal drivers of cell motility and is capable of responding to complex signaling cascades. Recent evidence suggests that it may play key roles in regulating apoptosis and aging. Beta actin is one of six different actin isoforms which have been identified. Like GAPDH, beta-Actin is constitutively expressed at high levels in almost all tissues and cell lines making it ideal for use as a loading control marker in immunoblots.

Selected Validation Data

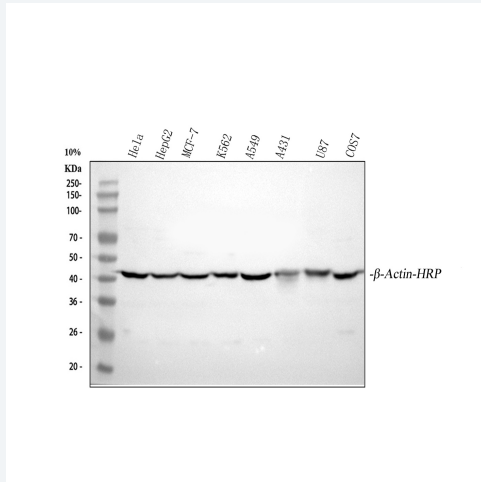


Figure 1. Western blot analysis of anti-Beta Actin/ACTB antibody (A01263-HRP). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates,
Lane 2: human HepG2 whole cell lysates,
Lane 3: human MCF-7 whole cell lysates,
Lane 4: human K562 whole cell lysates,
Lane 5: human A549 whole cell lysates,
Lane 6: human A431 whole cell lysates,
Lane 7: human U87 whole cell lysates,
Lane 8: monkey COS-7 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Beta Actin/ACTB antigen affinity purified polyclonal antibody (A01263-HRP). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Beta Actin/ACTB at approximately 42 kDa. The expected band size for Beta Actin/ACTB is at 42 kDa.