

## Actin (E361) polyclonal antibody

Catalog: BS1002

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

All eukaryotic cells express Actin, which often constitutes as much as 50% of total cellular protein. Actin filaments can form both stable and labile structures and are crucial components of microvilli and the contractile apparatus of muscle cells. While lower eukaryotes, such as yeast, have only one Actin gene, higher eukaryotes have several isoforms encoded by a family of genes. At least six types of Actin are present in mammalian tissues and fall into three classes. Alpha Actin expression is limited to various types of muscle, whereas beta and gamma are the principle constituents of filaments in other tissues. Members of the small GTPase family regulate the organization of the Actin cytoskeleton. Rho controls the assembly of Actin stress fibers and focal adhesion, Rac regulates Actin filament accumulation at the plasma membrane and Cdc42 stimulates formation of filopodia.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 45 kDa

### Swiss-Prot:

P60709/Q9BYX7/P63261

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

### Storage&Stability:

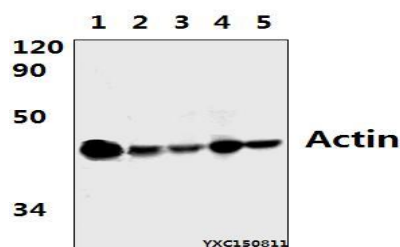
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Actin (E361) polyclonal antibody detects endogenous

levels of Actin protein.

### DATA:



Western blot (WB) analysis of Actin (E361) polyclonal antibody at 1:500 dilution

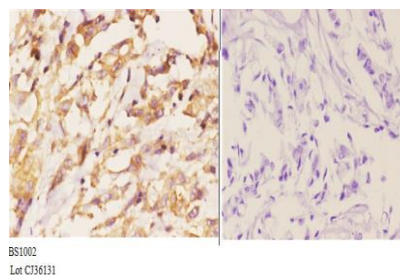
Lane1:HeLa whole cell lysate(40µg)

Lane2:HEK293T whole cell lysate(40µg)

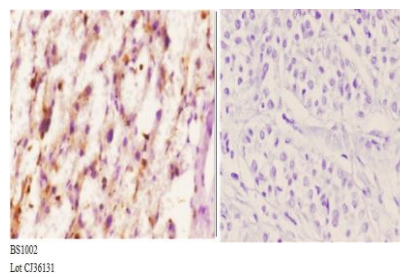
Lane3:NIH-3T3 whole cell lysate(40µg)

Lane4:RAW264.7 whole cell lysate(40µg)

Lane5:PC12 whole cell lysate(40µg)



Immunohistochemistry (IHC) analyzes of Actin (E361) pAb in paraffin-embedded human breast carcinoma tissue at 1:50. showing cytoplasmic and cytoskeleton staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.



Immunohistochemistry (IHC) analyzes of Actin (E361) pAb in paraffin-

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## PRODUCT DATA SHEET

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fin-embedded human liver carcinoma tissue at 1:50. showing cytoplasmic and cytoskeleton staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit

IgG-biotin followed by avidin-peroxidase.

**Note:**

For research use only, not for use in diagnostic procedure.

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