

Beta-actin Antibody

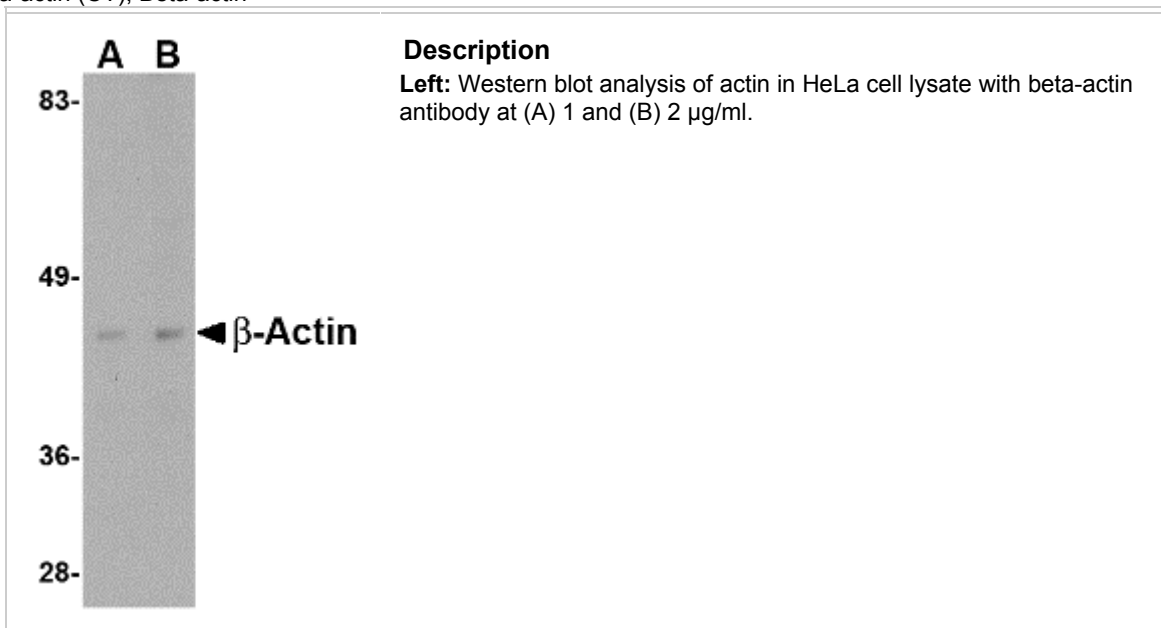
HOM-5005

Background

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, β -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.

Additional Names

Beta-actin (CT), Beta-actin



Source

Beta-actin antibody was raised against a 16 amino acid peptide from near the carboxy-terminus of human beta-actin.

Purification

Affinity chromatography purified via peptide column

Clonality / Clone

This is a polyclonal antibody.

Host

Beta-actin antibody was raised in chicken.

Please use anti-chicken secondary antibodies.

Application

Beta-actin antibody can be used for the detection of beta-actin by Western blot at 1 – 2 µg/ml.

Tested Application

E, WB

Buffer

Antibody is supplied in PBS containing 0.02% sodium azide.

Blocking Peptide

Beta-actin Peptide (contact Zyagen for availability)

Storage

Beta-actin antibody can be stored at 4°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Positive Control

HeLa Cell Lysate (contact Zyagen for availability)

Species Reactivity

H, M, R

Protein GI Number

12803203

Protein Accession Number

AAH02409

Short Description

(CT) A major cytoskeletal protein

References

1. Lambrechts A, Van Troys, M and Ampe C. The actin cytoskeleton in normal and pathological cell motility. *Int. J. Biochem. Cell Biol.* 2004; 36:1890-909.
2. Gourlay CW and Ayscough KR. The actin cytoskeleton: a key regulator of apoptosis and ageing? *Nat. Rev.* 2005; 6:583-9.