

# beta-Actin Antibody [10B7]

Catalog # ASC12039

## Product Information

|                          |                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, E                                                                                       |
| <b>Other Accession</b>   | <a href="#">12803203</a> , <a href="#">AAH02409</a> , <a href="#">60</a>                    |
| <b>Reactivity</b>        | Human, Mouse, Rat, Rabbit, Zebrafish, Chicken, Drosophila                                   |
| <b>Host</b>              | Mouse                                                                                       |
| <b>Clonality</b>         | Monoclonal                                                                                  |
| <b>Isotype</b>           | IgG                                                                                         |
| <b>Application Notes</b> | b-actin antibody can be used for the detection of b-actin by Western blot at 0.5 - 2 µg/mL. |

## Additional Information

|                    |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Other Names</b> | beta-Actin Antibody: Beta actin, b actin                                                                     |
| <b>Precautions</b> | beta-Actin Antibody [10B7] is for research use only and not for use in diagnostic or therapeutic procedures. |

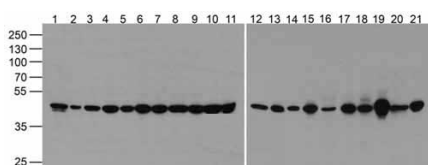
## Background

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, 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.

## References

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.;Gourlay CW and Ayscough KR. The actin cytoskeleton: a key regulator of apoptosis and ageing. Nat. Rev. 2005; 6:583-9.;;

## Images



Western blot of beta-Actin in 293, A431, HepG2, Jurkat, K562, MOLT, 3T3, Raji, Ramos, THP-1, U937, human brain, mouse brain, rat brain, rabbit brain, rat liver, rabbit spleen, chicken liver, chicken small intestine, zebrafish, and drosophila lysate at 1 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.