

Anti- β -Actin Monoclonal Antibody

Cat: AC63049

Summary:

【Product name】 : Anti- β -Actin antibody

【Source】 : Mouse

【Isotype】 : IgG1

【Species reactivity】 : Human Rat Mouse Monkey Dog Chicken
Hamster Rabbit Sheep Pig Insect Yeast

【Swiss Prot】 : P60709

【Gene ID】 : 60

【Calculated】 : MW:43kDa

【Observed】 : MW:43kDa

【Purification】 : Affinity purification

【Tested applications】 : WB,IHC, IF

【Recommended dilution】 : WB 1:3000-8000. IHC 1:100-300.IF 1:100-200

【WB Positive sample】 : 293T,HMC-1,MCF7,Human breast cancer,Human colon cancer,Mouse brain, Mouse lung,Rat spinal cord,Rat adrenal glang

【IHC Positive sample】 : Human breast cancer

【Subcellular location】 : Nucleus Cytoskeleton

【Immunogen】 : Recombinant protein of human β -Actin

【Storage】 : Shipped at 4°C. Upon delivery aliquot and store at -20°C

Background:

β -Actin is one of six different actin isoforms that have been identified. The actin molecules found in cells of various species and tissues tend to be very similar in their immunological and physical properties.

Therefore, Antibodies against β -Actin are useful as loading controls for Western Blotting. However it should

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be noted that levels of β -Actin may not be stable in certain cells. For example, expression of β -Actin in adipose tissue is very low and therefore β -Actin should not be used as loading control for these tissues.

Related Literature:

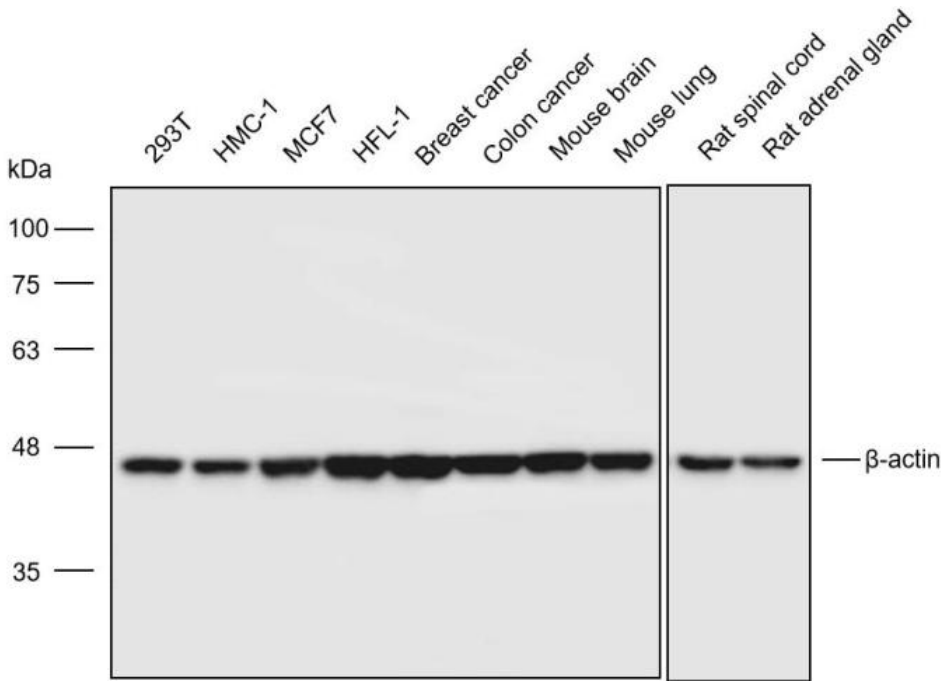
[1] Yi Liao,Tariq Hussain,Chunfa Liu,et al. Endoplasmic Reticulum Stress Induces Macrophages to Produce IL-1 β During Mycobacterium bovis Infection via a Positive Feedback Loop Between Mitochondrial Damage and Inflammasome Activation. Frontiers in Immunology. February 2019. (IF 4.716)

[2] Yunzhao Chen,Dandan Wang,Hao Peng,et al. Epigenetically upregulated oncoprotein PLCE1 drives esophageal carcinoma angiogenesis and proliferation via activating the PI-PLC ϵ -NF- κ B signaling pathway and VEGF-C/ Bcl-2 expression. Molecular Cancer. January 2019. (IF 4.257)

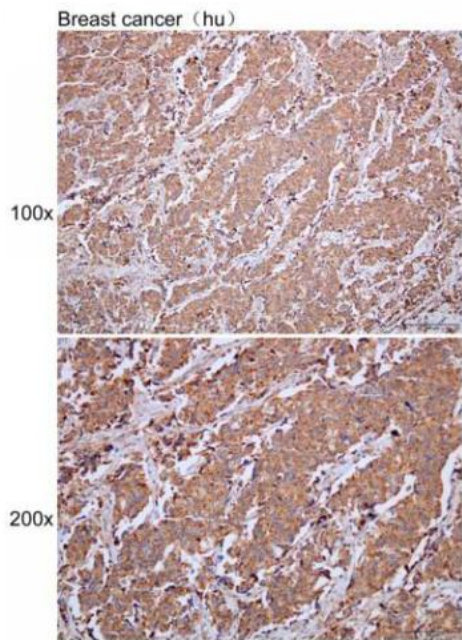
[3] JiajunChen,LeiZhang,MiaoHao. Effect of artemisinin on proliferation and apoptosis-related protein expression in vivo and in vitro. Saudi Journal of Biological Sciences. November 2018. (IF 2.820)

Verified picture:





Western blot analysis with β -Actin antibody diluted at 1:5000; Lane: 293T, HMC-1, MCF7, Human breast cancer, Human colon cancer, Mouse brain, Mouse lung, Rat spinal cord, Rat adrenal gland



Immunohistochemistry of paraffin-embedded Human breast cancer with β -Actin antibody diluted at 1:200