

## Rabbit Anti-beta-Actin (Loading Control) antibody

SL0061R

<b>Product Name:</b>	beta-Actin (Loading Control)
<b>Chinese Name:</b>	β-肌动蛋白/β-Actin 抗体(内参抗体)
<b>Alias:</b>	Beta Actin; beta-Actin; ACTB; Actin cytoplasmic 1; Actin, beta; Beta actin; beta cytoskeletal actin;A X actin like protein; ACTB; Actin cytoplasmic 1; alpha sarcomeric Actin; Actx; Beta cytoskeletal actin; Melanoma X actin; PS1TP5BP1; ACTB_HUMAN.
<b>文献引用</b> PubMed :	<p><b>Specific References(188)</b> SL0061R has been referenced in 188 publications.</p> <p><b>[IF=7.82]</b>Han, Jianfeng, et al. "Cationic Bovine Serum Albumin Based Self-Assembled Nanoparticles as siRNA Delivery Vector for Treating Lung Metastatic Cancer." Small 10.3 (2014): 524-535.<b>WB;Mouse.</b>  <a href="#">PubMed:24106138</a></p> <p><b>[IF=7.60]</b>Teng, I., et al. "Phospholipid-functionalized mesoporous silica nanocarriers for selective photodynamic therapy of cancer." Biomaterials (2013).<b>WB;Mouse.</b>  <a href="#">PubMed:23810081</a></p> <p><b>[IF=7.60]</b>Xiang, Bai, et al. "PSA-responsive and PSMA-mediated multifunctional liposomes for targeted therapy of prostate cancer." Biomaterials (2013).<b>WB;Human.</b>  <a href="#">PubMed:23777916</a></p> <p><b>[IF=6.34]</b>Li, Xiaoxia, et al. "AMP-activated protein kinase promotes the differentiation of endothelial progenitor cells." Arteriosclerosis, thrombosis, and vascular biology 28.10 (2008): 1789-1795.<b>WB;Human.</b>  <a href="#">PubMed:18599796</a></p> <p><b>[IF=5.21]</b>Ma, Yanqin, et al. "Inflammatory responses induced by fluoride and arsenic at toxic concentration in rabbit aorta." Archives of toxicology 86.6 (2012): 849-</p>

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	<p style="text-align: center;"><a href="#">PubMed:0</a></p> <p><b>[IF=4.26]</b>Li, Chengcheng, et al. "Phycocyanin attenuates pulmonary fibrosis via the TLR2-MyD88-NF-κB signaling pathway." <i>Scientific Reports</i> 7 (2017).<b>WB;Mouse.</b></p> <p style="text-align: center;"><a href="#">PubMed:28725012</a></p> <p><b>[IF=0.57]</b>Shi, Hua-Li, et al. "Effect of polygonimitin C on bone formation and resorption in human osteoblast-like MG63 cells." <i>Tropical Journal of Pharmaceutical Research</i> 16.7 (2017): 1595-1600.<b>WB;Human.</b></p> <p style="text-align: center;"><a href="#">PubMed:0</a></p> <p><b>[IF=1.99]</b>Yao, Xiaolei, et al. "Vitamin D receptor expression and potential role of vitamin D on cell proliferation and steroidogenesis in goat ovarian granulosa cells." <i>Theriogenology</i> (2017).<b>WB;Goat.</b></p> <p style="text-align: center;"><a href="#">PubMed:0</a></p> <p><b>[IF=1.42]</b>Karaboga, ?hsan, Selim Demirtas, and Turan Karaca. "Investigation of the relationship between the Th17/IL-23 pathway and innate-adaptive immune system in TNBS-induced colitis in rats." <i>Iranian Journal of Basic Medical Sciences</i> 20.8 (2017): 870-879.<b>WB;Rat.</b></p> <p style="text-align: center;"><a href="#">PubMed:0</a></p> <p><b>[IF=3.23]</b>Wang, Xia, et al. "Intermittent food restriction initiated late in life prolongs lifespan and retards the onset of age-related markers in the annual fish <i>Nothobranchius guentheri</i>." <i>Biogerontology</i> 18.3 (2017): 383-396.<b>WB;Fish.</b></p> <p style="text-align: center;"><a href="#">PubMed:28432521</a></p> <p><b>[IF=3.53]</b>Zhou, Wenjing, et al. "Oxidative stress induced autophagy in cancer associated fibroblast enhances proliferation and metabolism of colorectal cancer cells." <i>Cell Cycle</i> 16.1 (2017): 73-81.<b>WB;</b></p> <p style="text-align: center;"><a href="#">PubMed:27841696</a></p> <p><b>[IF=3.74]</b>Yuan, Zuoqing, et al. "Changes on lipid peroxidation, enzymatic activities and gene expression in planarian (<i>Dugesia japonica</i>) following exposure to perfluorooctanoic acid." <i>Ecotoxicology and Environmental Safety</i> 145 (2017): 564-568.<b>WB;Other Species.</b></p> <p style="text-align: center;"><a href="#">PubMed:28800531</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,Sheep,Bee,Fish,Guinea Pig,Hamster,Goat,Cat,mt,op



<b>Applications:</b>	WB=1:5000-20000ELISA=1:5000-20000IHC-P=1:500-1000Flow-Cyt=1µg/Test (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	42kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	Synthetic MAP peptide derived from human beta-Actin:1-200/375
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>Loading Control</p> <p>This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, and integrity. This actin is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins. [provided by RefSeq, Jul 2008].</p> <p><b>Function:</b> Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.</p> <p><b>Subunit:</b> Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to 4 others. Identified in a mRNP granule complex, at least composed of ACTB, ACTN4, DHX9, ERG, HNRNPA1, HNRNPA2B1, HNRNPAB, HNRNPD, HNRNPL, HNRNPR, HNRNPU, HSPA1, HSPA8, IGF2BP1, ILF2, ILF3, NCBP1, NCL, PABPC1, PABPC4, PABPN1, RPLP0, RPS3, RPS3A, RPS4X, RPS8, RPS9, SYNCRIP, TROVE2, YBX1 and untranslated mRNAs. Component of the BAF complex, which includes at least actin (ACTB), ARID1A, ARID1B/BAF250, SMARCA2, SMARCA4/BRG1, ACTL6A/BAF53, ACTL6B/BAF53B, SMARCE1/BAF57 SMARCC1/BAF155, SMARCC2/BAF170, SMARCB1/SNF5/INI1, and one or more of SMARCD1/BAF60A, SMARCD2/BAF60B, or SMARCD3/BAF60C. In muscle cells, the BAF complex also contains DPF3. Found in a complex with XPO6, Ran, ACTB and PFN1. Component of the MLL5-L complex, at least composed of MLL5, STK38, PPP1CA, PPP1CB, PPP1CC, HCFC1, ACTB and OGT. Interacts with XPO6 and EMD. Interacts with ERBB2.</p> <p><b>Subcellular Location:</b> Cytoplasm. cytoskeleton.</p>

**Tissue Specificity:**

Ubiquitously expressed in all eukaryotic cells.

**Post-translational modifications:**

ISGylated.

Oxidation of Met-44 by MICALs (MICAL1, MICAL2 or MICAL3) to form methionine sulfoxide promotes actin filament depolymerization. Methionine sulfoxide is produced stereospecifically, but it is not known whether the (S)-S-oxide or the (R)-S-oxide is produced.

**DISEASE:**

Defects in ACTA1 are the cause of nemaline myopathy type 3 (NEM3) [MIM:161800]. A form of nemaline myopathy. Nemaline myopathies are muscular disorders characterized by muscle weakness of varying severity and onset, and abnormal thread-or rod-like structures in muscle fibers on histologic examination. The phenotype at histological level is variable. Some patients present areas devoid of oxidative activity containing (cores) within myofibers. Core lesions are unstructured and poorly circumscribed.

Defects in ACTA1 are a cause of myopathy congenital with excess of thin myofilaments (MPCETM) [MIM:161800]. A congenital muscular disorder characterized at histological level by areas of sarcoplasm devoid of normal myofibrils and mitochondria, and replaced with dense masses of thin filaments. Central cores, rods, ragged red fibers, and necrosis are absent.

**Similarity:**

Belongs to the actin family.

**SWISS:**

P60709

**Gene ID:**

60

**Database links:**

[Entrez Gene: 396526](#) Chicken

[Entrez Gene: 60](#) Human

[Entrez Gene: 11461](#) Mouse

[Entrez Gene: 100009272](#) Rabbit

[Entrez Gene: 81822](#) Rat

[Omim: 102630](#) Human

[SwissProt: P60706](#) Chicken

[SwissProt: P60712](#) Cow

[SwissProt: P60708](#) Horse

[SwissProt: P60709](#) Human

[SwissProt: P60710](#) Mouse

[SwissProt: P29751](#) Rabbit

[SwissProt: P60711](#) Rat

[SwissProt: P60713](#) Sheep

[Unigene: 520640](#) Human

[Unigene: 708120](#) Human

[Unigene: 727576](#) Human

[Unigene: 328431](#) Mouse

[Unigene: 391967](#) Mouse

[Unigene: 94978](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**内参抗体**

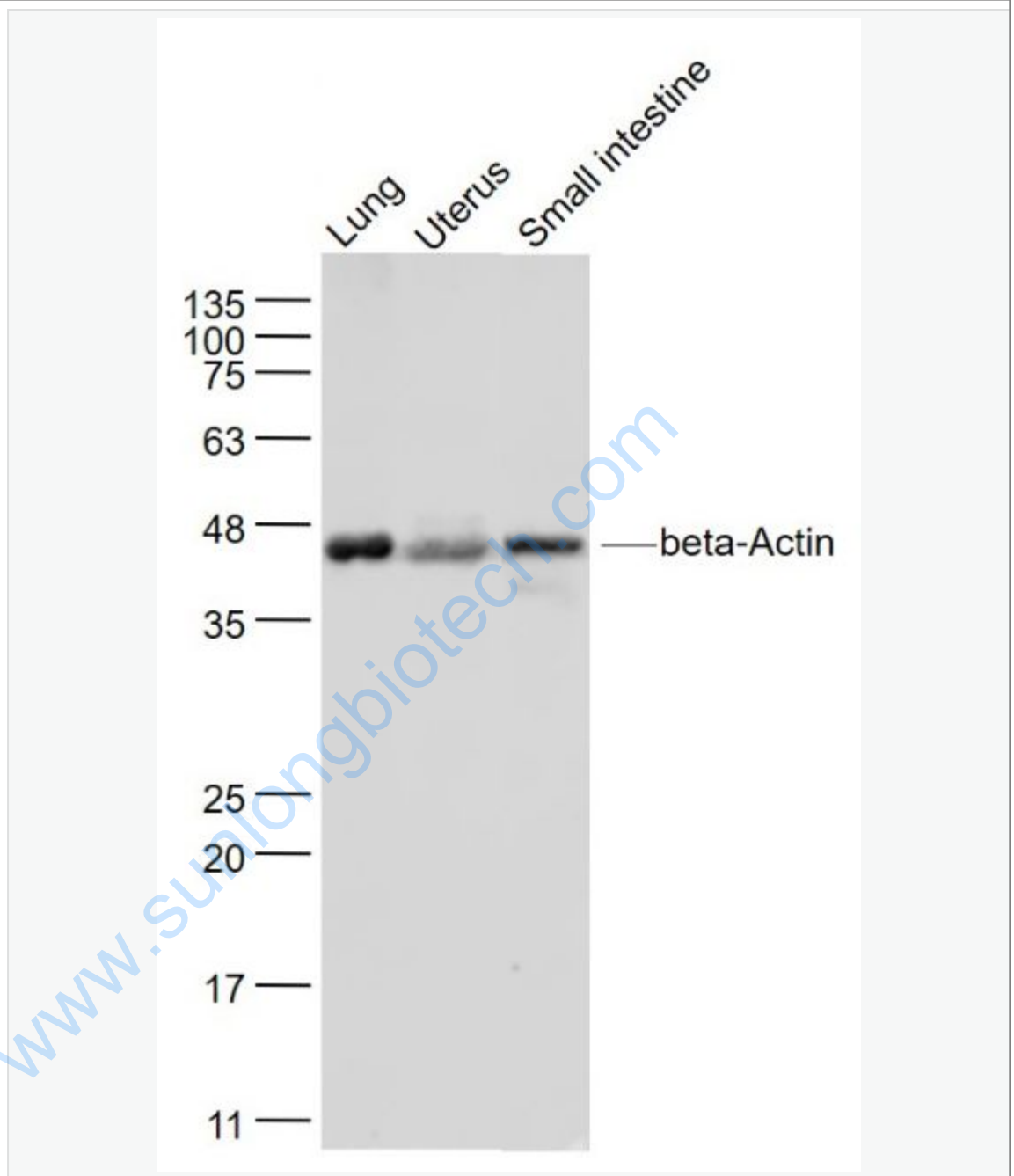
$\beta$ -

Actin是横纹肌纤维中的一种主要蛋白质成分,也是肌肉细丝及Cytoskeleton微丝的主要成分。具有收缩功能,分布广泛,具有高度保守性,在细胞中的表达相对稳定,因此常被用作校正系统的内参。 $\beta$ -Actin分子量为42 kDa,此抗体主要用于标记平滑肌及其来源的Tumour。

**我公司开发的 $\beta$ -**

**Actin抗体已被国内外广大科研工作者使用,被称谓:质量信得过产品。**

Picture:



Sample:

Lung (Mouse) Lysate at 40 ug

Uterus (Mouse) Lysate at 40 ug

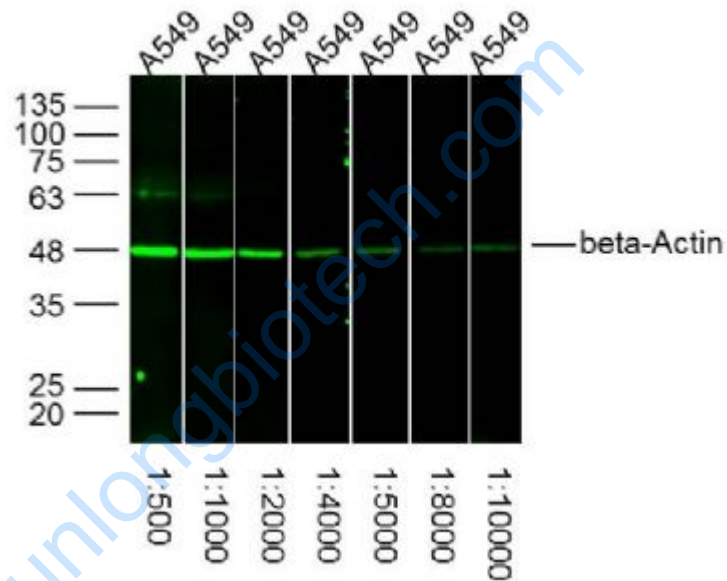
Small intestine (Mouse) Lysate at 40 ug

Primary: Anti- beta-Actin (SL0061R) at 1/2000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kD

Observed band size: 42 kD



Sample:

A549 Cell (Human) Lysate at 30 ug

Primary: Lane1: Anti-beta-Actin (SL0061R) at 1/500 dilution

Lane2: Anti-beta-Actin (SL0061R) at 1/1000 dilution

Lane3: Anti-beta-Actin (SL0061R) at 1/2000 dilution

Lane4: Anti-beta-Actin (SL0061R) at 1/4000 dilution

Lane5: Anti-beta-Actin (SL0061R) at 1/5000 dilution

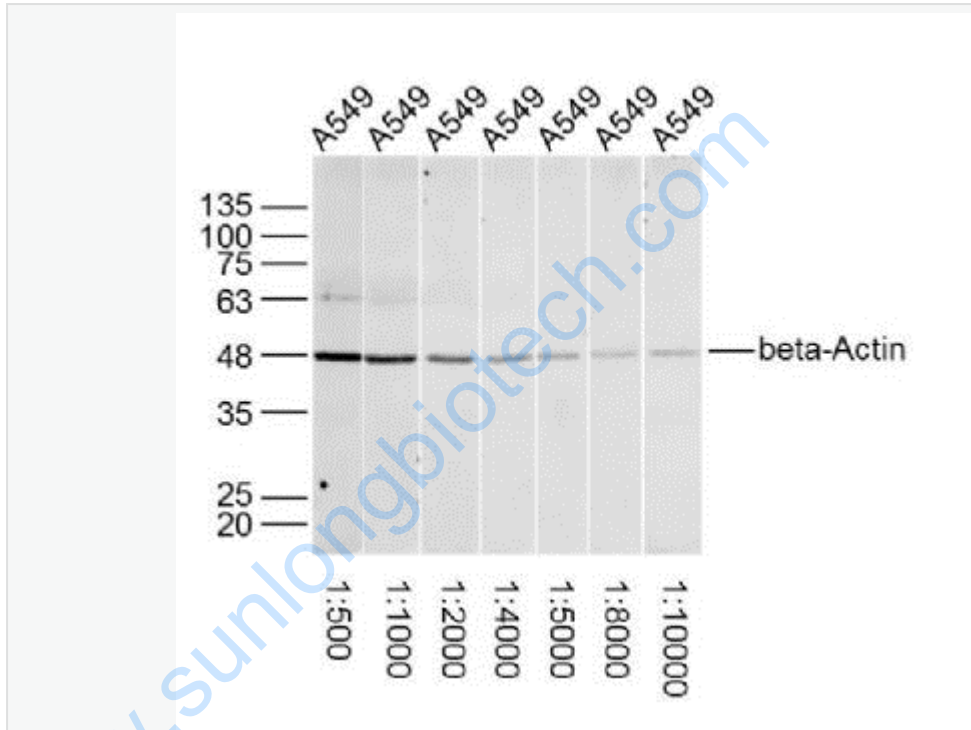
Lane6: Anti-beta-Actin (SL0061R) at 1/8000 dilution

Lane7: Anti-beta-Actin (SL0061R) at 1/10000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kD

Observed band size: 42 kD



Sample:

A549 Cell (Human) Lysate at 30 ug

Primary: Lane1: Anti-beta-Actin (SL0061R) at 1/500 dilution

Lane2: Anti-beta-Actin (SL0061R) at 1/1000 dilution

Lane3: Anti-beta-Actin (SL0061R) at 1/2000 dilution

Lane4: Anti-beta-Actin (SL0061R) at 1/4000 dilution

Lane5: Anti-beta-Actin (SL0061R) at 1/5000 dilution

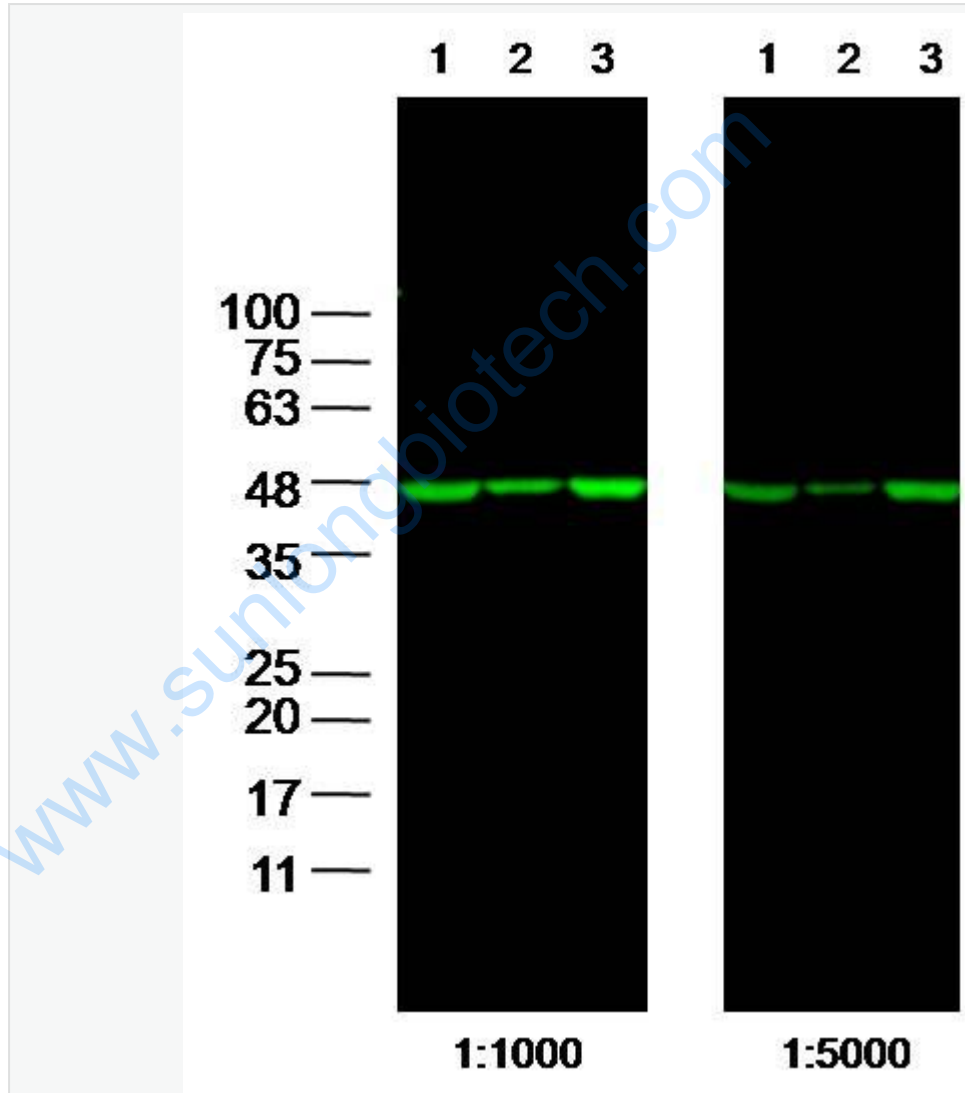
Lane6: Anti-beta-Actin (SL0061R) at 1/8000 dilution

Lane7: Anti-beta-Actin (SL0061R) at 1/10000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kD

Observed band size: 42 kD



Sample:

Lane1: 293T Cell Lysate at 25 ug

Lane2: A549 Cell Lysate at 25 ug

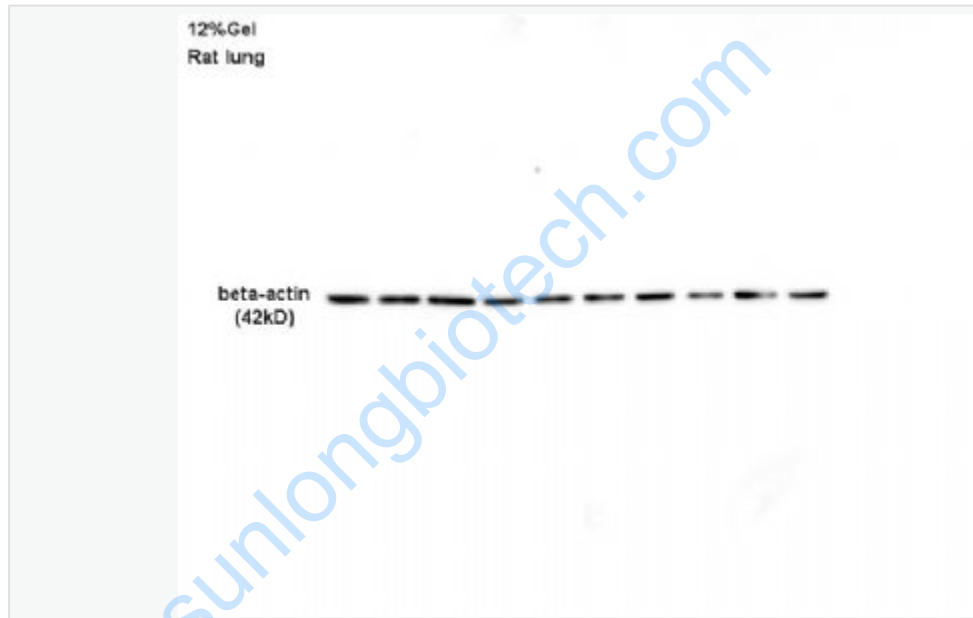
Lane3: A431 Cell Lysate at 25 ug

Primary: Anti- beta-Actin (SL0061R) at 1/1000 and 1/5000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42kD

Observed band size: 42 kD



Sample: Lung lysate at 30ug;

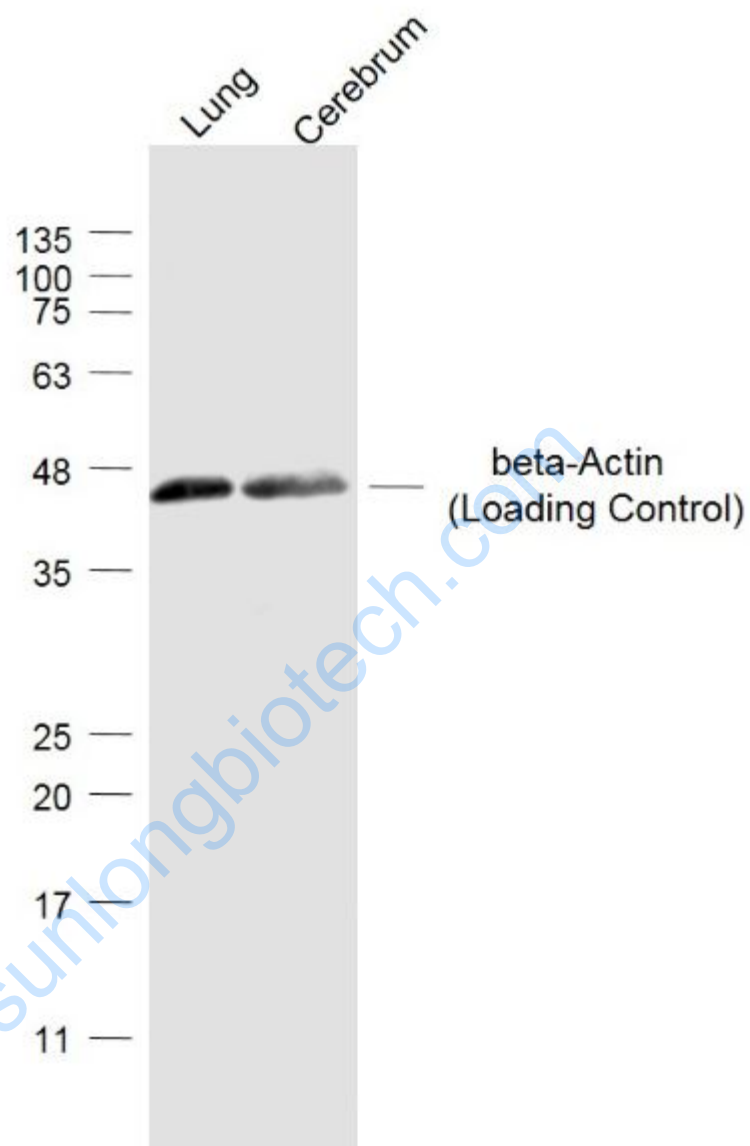
Primary: Anti-beta-actin (SL0061R) at 1:1000 dilution

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G) at 1:3000 dilution

Predicted band size : 42kD

Observed band size : 42kD





Sample:

Lung (Mouse) Lysate at 40 ug

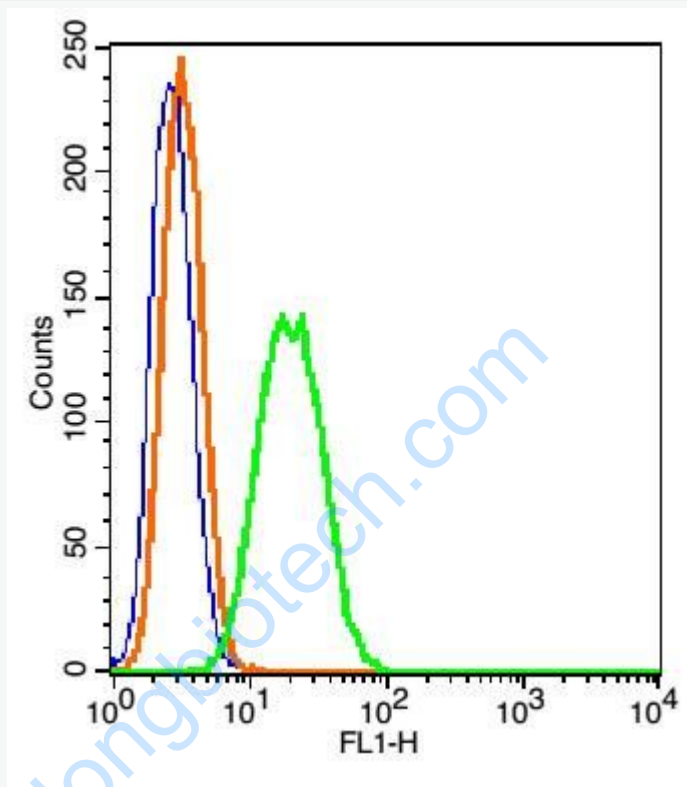
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-beta-Actin (Loading Control) (SL0061R) at 1/2000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kD

Observed band size: 42 kD



Blank control: RSC96(blue).

Primary Antibody: Rabbit Anti-beta-Actin /FITC Conjugated antibody (SL0061R),

Dilution: 1 $\mu$ g in 100  $\mu$ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG/FITC(orange) ,used under the same conditions.

#### Protocol

The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice. The cells were washed twice with 1 X PBS. The cells were incubated in 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions followed by the incubated

	with antibody (SL0061R) for 30 min on ice. Acquisition of 20,000 events was performed.
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