SunLong Biotech Co.,LTD
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Rabbit Anti-beta-Actin (Loading Control)antibody

SL0061R

Product Name	beta-Actin (Loading Control)
Chinese Name	β-肌动蛋白/β-Actin（内参）抗体
Alias	Beta Actin; beta-Actin; ACTB; Actin cytoplasmic 1; Actin, beta; Beta actin; beta cytoskeletal ac alpha sarcomeric Actin; Actx; Beta cytoskeletal actin; Melanoma X actin; PS1TP5BP1; ACTB_
Product Type	Internal reference anti
Research Area	Tumour Cell biology Signal transduction Cytoskeleton
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat(predicted:Chicken,Dog,Pig,Rabbit,Sheep,Bee,Fish,GuineaPig,Hamster,Cat)
Applications	WB=1:5000-50000 ELISA=1:5000-20000 IHC-P=1:100-500 Flow-Cyt=1μg/Test ICC=1:100 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	42kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	Synthetic MAP peptide derived from human beta-Actin: 1-200/375
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d
PubMed	PubMed

Loading Control
This gene encodes one of six different actin proteins. Actins are highly conserved proteins that a
actin is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskelet

Function:
Actins are highly conserved proteins that are involved in various types of cell motility and are ub

Subunit:
Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a
Identified in a mRNP granule complex, at least composed of ACTB, ACTN4, DHX9, ERG, HN
HNRNPL, HNRNPR, HNRNPU, HSPA1, HSPA8, IGF2BP1, ILF2, ILF3, NCBP1, NCL, PABP
RPS8, RPS9, SYNCRIP, TROVE2, YBX1 and untranslated mRNAs. Component of the BAF co
ARID1B/BAF250, SMARCA2, SMARCA4/BRG1, ACTL6A/BAF53, ACTL6B/BAF53B, SMA
SMARCC2/BAF170, SMARCB1/SNF5/INI1, and one or more of SMARCD1/BAF60A, SMAR
the BAF complex also contains DPF3. Found in a complex with XPO6, Ran, ACTB and PFN1. C
MLL5, STK38, PPP1CA, PPP1CB, PPP1CC, HCFC1, ACTB and OGT. Interacts with XPO6 ar

Subcellular Location:
Cytoplasm. cytoskeleton.

Tissue Specificity:
Product Detail
Ubiquitously expressed in all eukaryotic cells.

Post-translational modifications:
ISGylated.
Oxidation of Met-44 by MICALs (MICAL1, MICAL2 or MICAL3) to form methionine sulfoxid
sulfoxide is produced stereospecifically, but it is not known whether the (S)-S-oxide or the (R)-S

DISEASE:
Defects in ACTA1 are the cause of nemaline myopathy type 3 (NEM3) [MIM:161800]. A form of
disorders characterized by muscle weakness of varying severity and onset, and abnormal thread-
examination. The phenotype at histological level is variable. Some patients present areas devoid
Core lesions are unstructured and poorly circumscribed.
Defects in ACTA1 are a cause of myopathy congenital with excess of thin myofilaments (MPCE
characterized at histological level by areas of sarcoplasm devoid of normal myofibrils and mitoch
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

Internal reference anti

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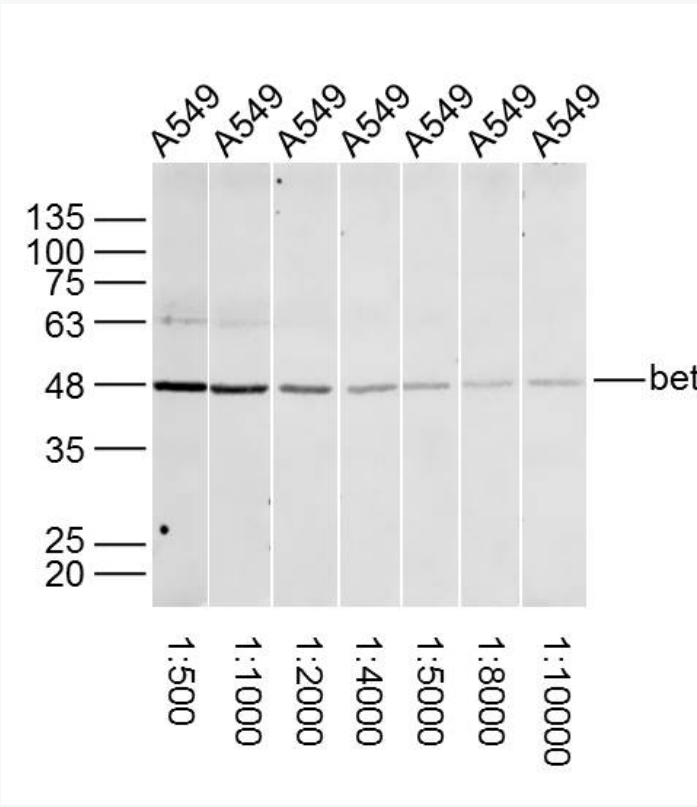
β-Actin 是横纹肌肌纤维中的一种主要蛋白质成分，也是肌肉细丝及 Cytoskeleton 微丝的主
性，在细胞中的表达相对稳定，因此常被用作校正系统的内参。β-Actin 分子量为 42 kDa
此抗体主要用于标记平滑肌及其来源的 Tumour。

我公司开发的 β-Actin 抗体已被国内外广大科研工作者使用，被称为质量信得过产品.

Product Picture



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

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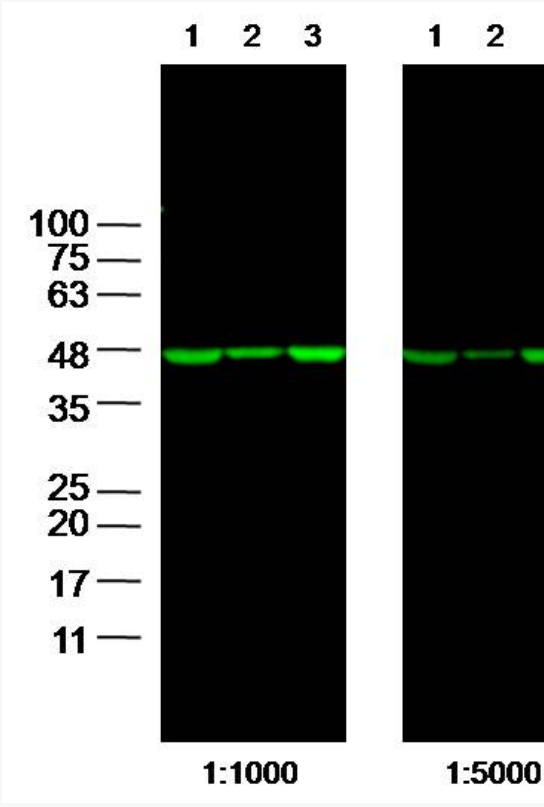
Lane7: Anti-beta-Actin (SL0061R) at 1/10000 dilution

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

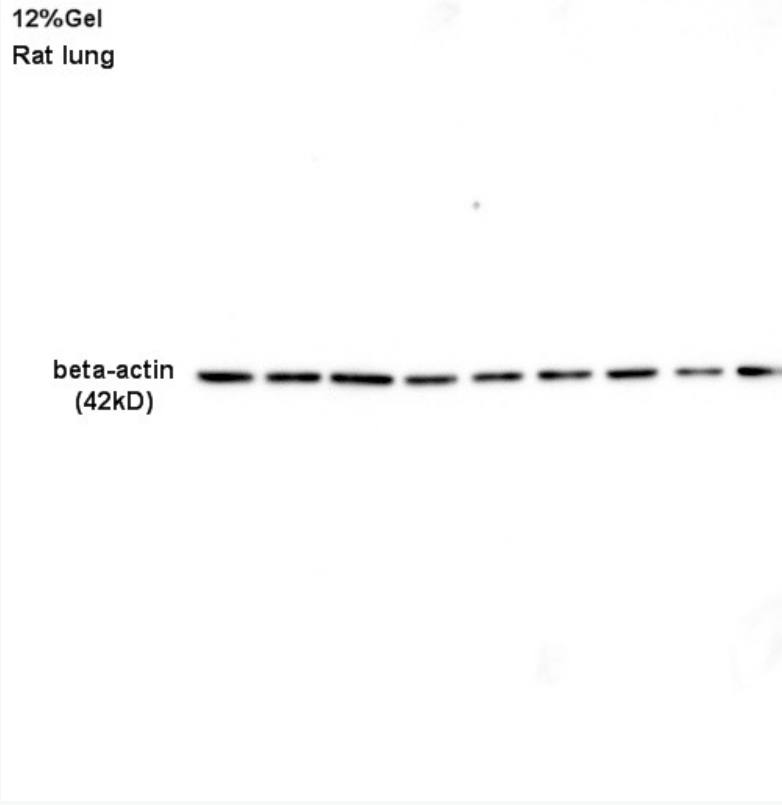
Lane3: A431 Cell Lysate at 25 ug

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

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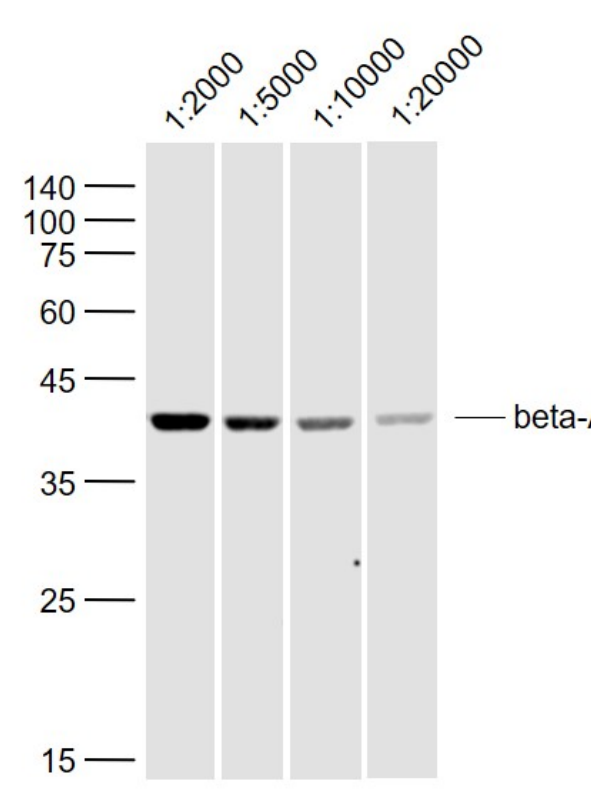

Sample:

SH-SY5Y (Human) Lysate at 40 ug

Primary:

Anti-beta-Actin (SL0061R) at 1/2000~1/20000 dilution

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

Predicted band size: 42 kD

Observed band size: 42 kD

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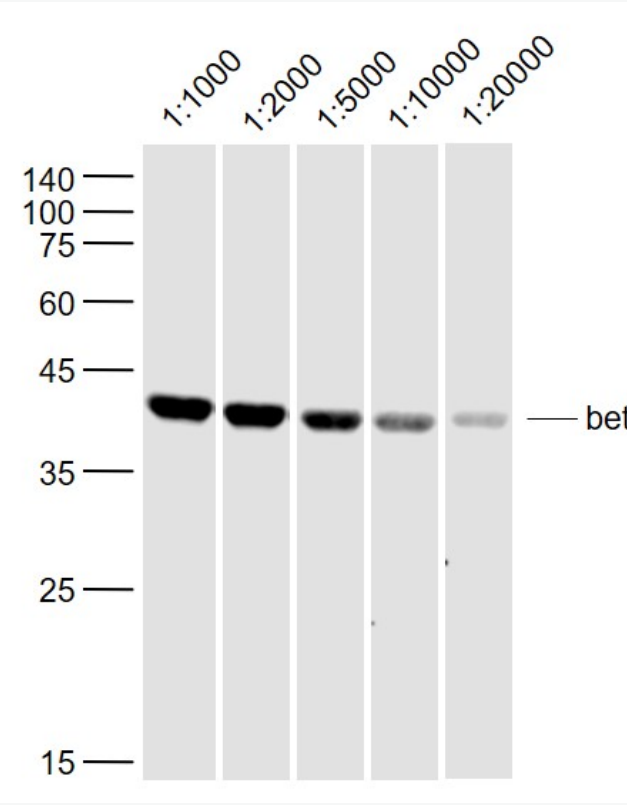

Sample:

Thymus (Mouse) Lysate at 40 ug

Primary:

Anti-beta-Actin (SL0061R) at 1/1000~1/20000 dilution

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

Predicted band size: 42 kD

Observed band size: 42 kD

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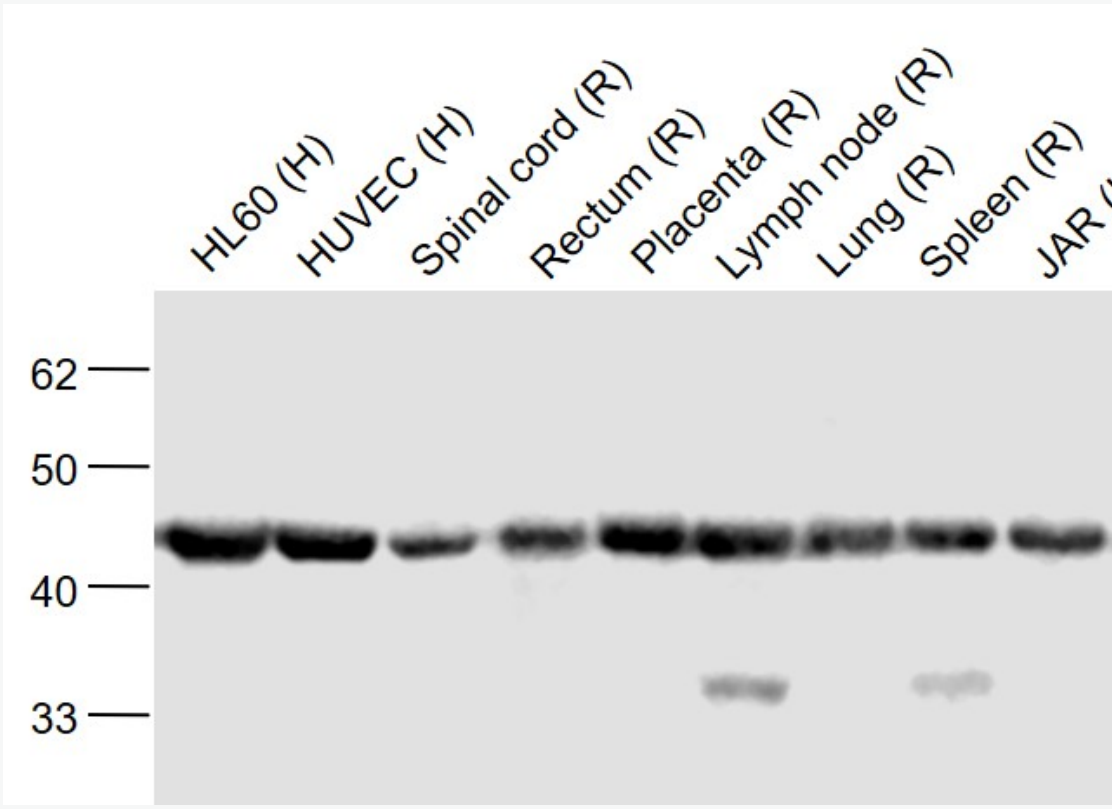


Sample:

HL60 (Human) Cell Lysate at 40 ug

HUVEC (Human) Cell Lysate at 40 ug

Spinal cord (Rat) Lysate at 40 ug

Rectum (Rat) Lysate at 40 ug

Placenta (Rat) Lysate at 40 ug

Lymph node (Rat) Lysate at 40 ug

Lung (Rat) Lysate at 40 ug

Spleen (Rat) Lysate at 40 ug

JAR (Human) Cell Lysate at 40 ug

293T (Human) Cell Lysate at 40 ug

Jurkat (Human) Cell Lysate at 40 ug

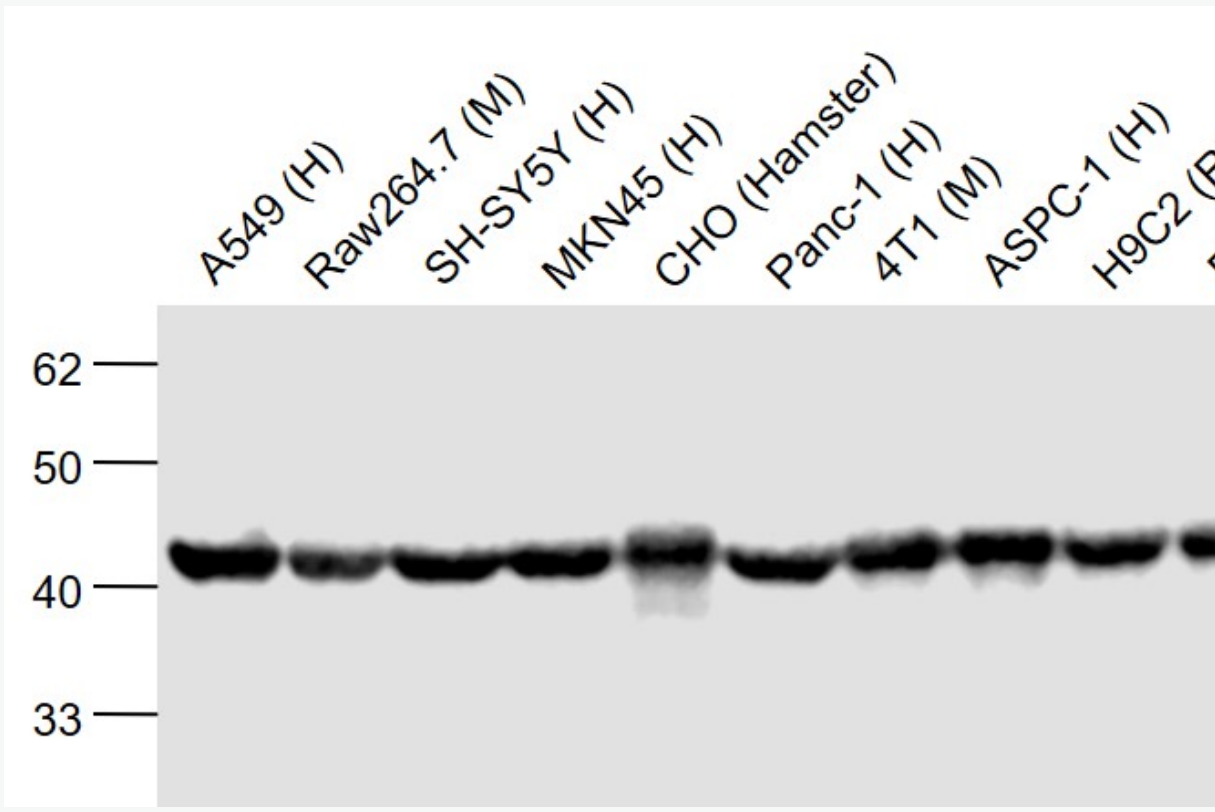
TM4 (Human) Cell Lysate at 40 ug

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 (Human) Cell Lysate at 40 ug

Raw264.7 (Mouse) Cell Lysate at 40 ug

SH-SY5Y (Human) Cell Lysate at 40 ug

MKN45 (Human) Cell Lysate at 40 ug

CHO (Hamster) Cell Lysate at 40 ug

Panc-1 (Human) Cell Lysate at 40 ug

4T1 (Mouse) Cell Lysate at 40 ug

ASPC-1 (Human) Cell Lysate at 40 ug

H9C2 (Rat) Cell Lysate at 40 ug

Brl-3a (Rat) Cell Lysate at 40 ug

TT (Human) Cell Lysate at 40 ug

TEV-1 (Human) Cell Lysate at 40 ug

EC9706 (Human) Cell 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

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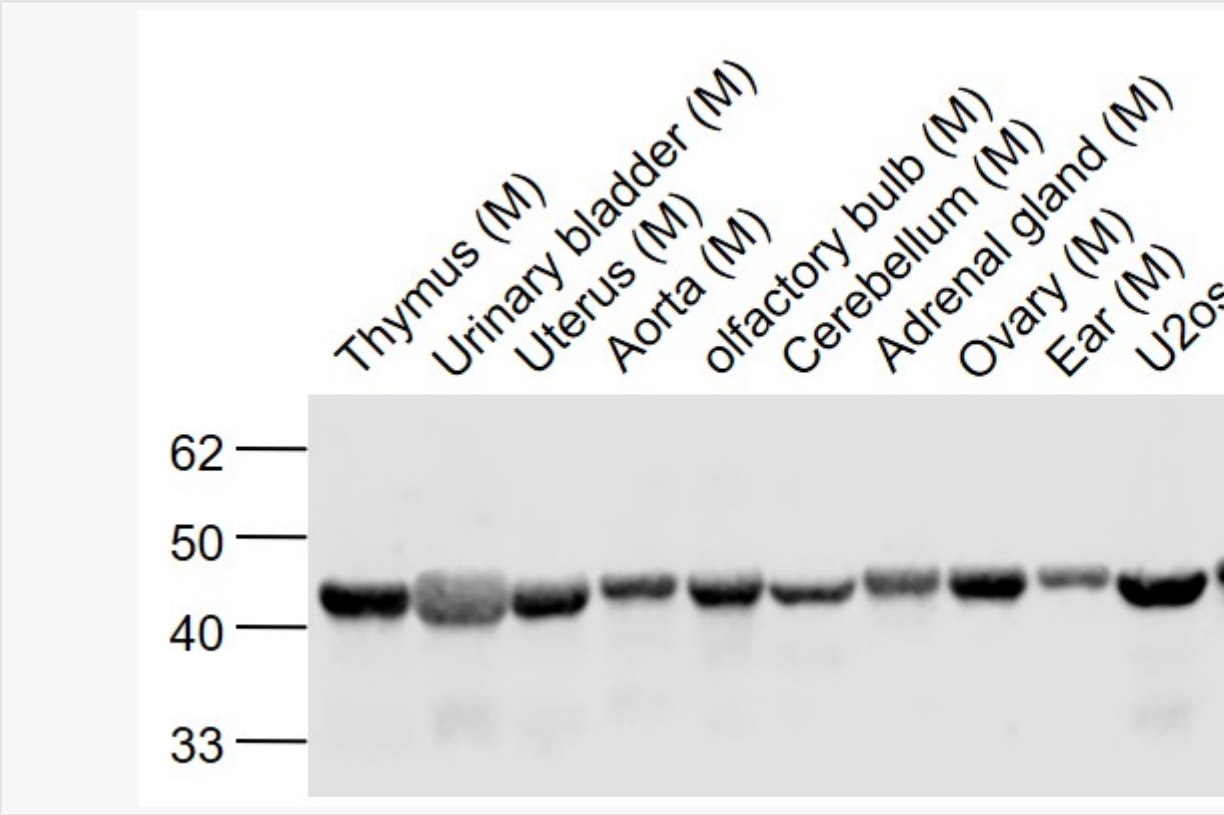

Sample:

Thymus (Mouse) Lysate at 40 ug

Urinary bladder (Mouse) Lysate at 40 ug

Uterus (Mouse) Cell Lysate at 40 ug

Aorta (Mouse) Lysate at 40 ug

olfactory bulb (Mouse) Lysate at 40 ug

Cerebellum (Mouse) Lysate at 40 ug

Adrenal gland (Mouse) Lysate at 40 ug

Ovary (Mouse) Lysate at 40 ug

Ear (Mouse) Lysate at 40 ug

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U2os (Human) Cell Lysate at 40 ug

ASPC-1 (Human) Cell Lysate at 40 ug

Vas deferens (Mouse) Lysate at 40 ug

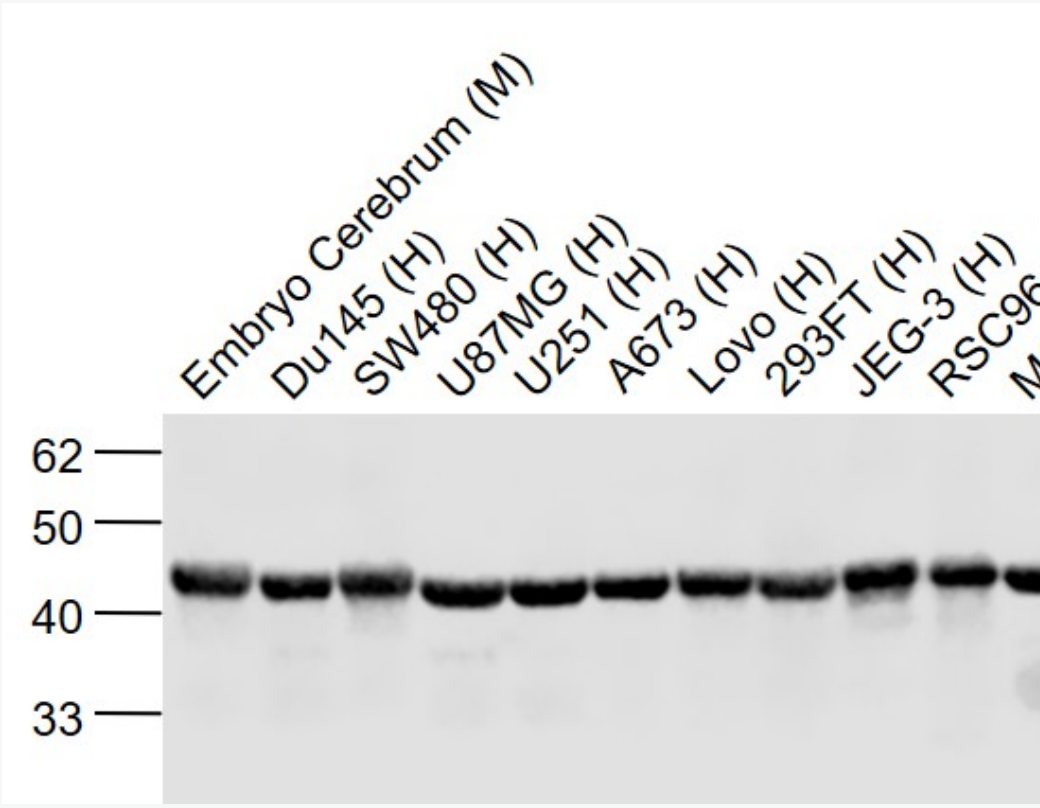
trachea (Mouse) Lysate at 40 ug

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:

Embryo Cerebrum (Mouse) Lysate at 40 ug

Du145 (Human) Lysate at 40 ug

SW480 (Human) Cell Lysate at 40 ug

U87MG (Human) Lysate at 40 ug

U251 (Human) Lysate at 40 ug

A673 (Human) Lysate at 40 ug

Lovo (Human) Lysate at 40 ug

293FT (Human) Lysate at 40 ug

JEG-3 (Human) Lysate at 40 ug

RSC96 (Rat) Cell Lysate at 40 ug

MCF-7 (Human) Cell Lysate at 40 ug

HepG2 (Human) Lysate at 40 ug

A431 (Human) 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

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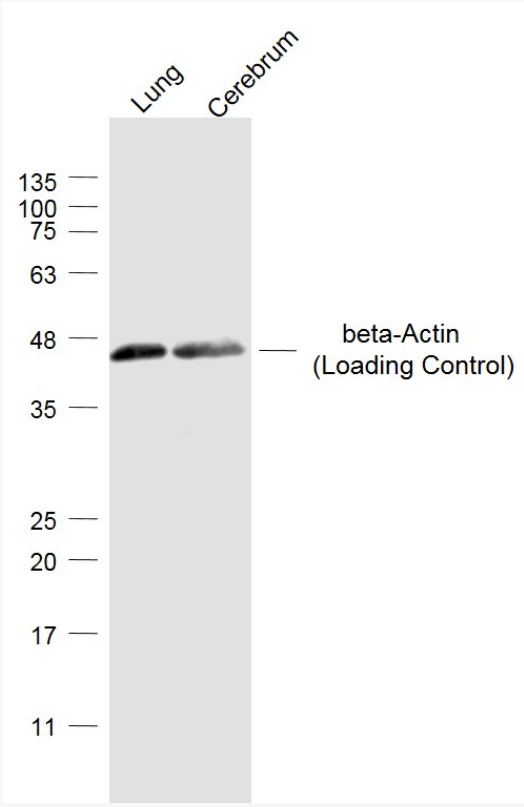

Sample:

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

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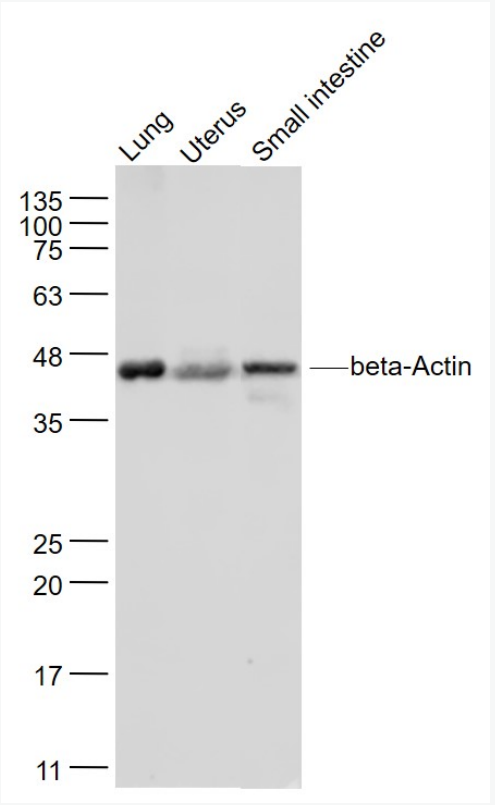

Sample:

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

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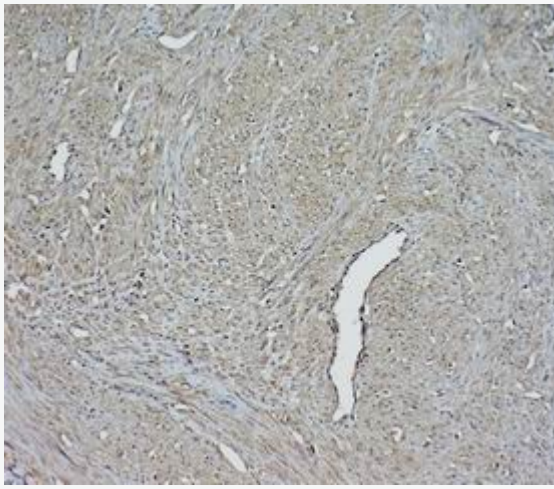

Tissue/cell: human cervical carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous

Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-Beta-actin Polyclonal Antibody, Unconjugated(SL0061R) 1:1500, overnight

antibody(SP-0023) and DAB(C-0010) staining

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