


# Anti-beta Actin antibody ab227387

**111 References**   **13 图像**

### 概述

产品名称	Anti-beta Actin抗体
描述	兔多克隆抗体to beta Actin
宿主	Rabbit
经测试应用	适用于: WB, IP, IHC-P, ICC/IF
种属反应性	与反应: Mouse, Rat, Human, Drosophila melanogaster 预测可用于: Sheep, Rabbit, Chicken, Guinea pig, Cow, Dog, Xenopus laevis, Chimpanzee, Rhesus monkey 
免疫原	Recombinant fragment within Human beta Actin (internal sequence). The exact sequence is proprietary. Database link: <b>P60709</b>
阳性对照	WB: HEK-293T, A431, HeLa, HepG2, Neuro-2a, C8D30, NIH/3T3, RAW 264.7, C2C12, PC-12 and Rat2 whole cell extracts; Mouse and rat liver tissue extracts; Drosophila melanogaster lysate. IP: HEK-293T whole cell extract. IHC-P: Mouse pancreas and cervix tissues; Rat liver tissue. ICC/IF: HeLa cells.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
纯度	Immunogen affinity purified

克隆

多克隆

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab227387于以下的经测试应用

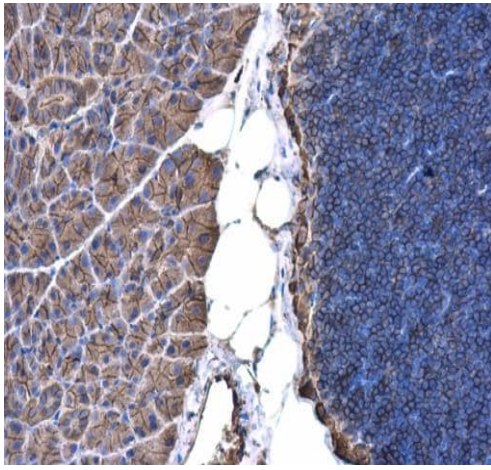
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/5000 - 1/20000. Predicted molecular weight: 42 kDa.
IP		1/100 - 1/1000.
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

靶标

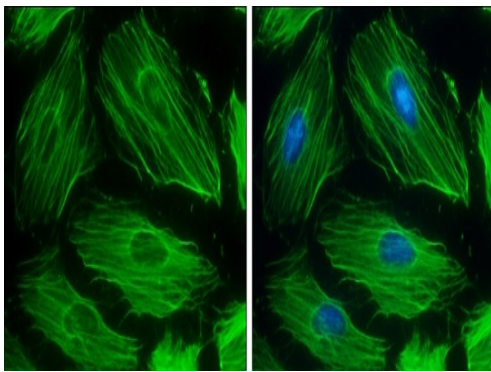
功能	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
疾病相关	Defects in ACTB are a cause of dystonia juvenile-onset (DYTJ) [MIM:607371]. DYTJ is a form of dystonia with juvenile onset. Dystonia is defined by the presence of sustained involuntary muscle contraction, often leading to abnormal postures. DYTJ patients manifest progressive, generalized, dopa-unresponsive dystonia, developmental malformations and sensory hearing loss.
序列相似性	Belongs to the actin family.
翻译后修饰	ISGylated.
细胞定位	Cytoplasm > cytoskeleton. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-beta Actin antibody (ab227387)

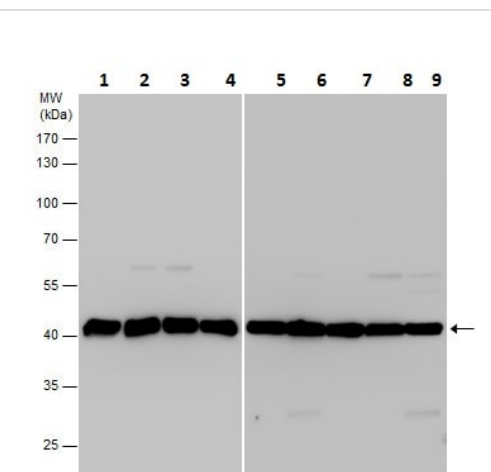
Paraffin-embedded mouse pancreas tissue stained for beta Actin using ab227387 at 1/500 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-beta Actin antibody (ab227387)

0.5% Triton X-100 followed by ice-cold methanol fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for beta Actin (green) using ab227387 at 1/500 dilution in ICC/IF.

Nuclear counterstain: Hoechst 33342 (blue).



Western blot - Anti-beta Actin antibody (ab227387)

**All lanes** : Anti-beta Actin antibody (ab227387) at 1/20000 dilution

**Lane 1** : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract

**Lane 2** : A431 (human epidermoid carcinoma cell line) whole cell extract

**Lane 3** : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract

**Lane 4** : HepG2 (human liver hepatocellular carcinoma cell line) whole cell extract

**Lane 5** : Neuro-2a (mouse neuroblastoma cell line) whole cell extract

**Lane 6** : C8D30 whole cell extract

**Lane 7** : NIH/3T3 (mouse embryo fibroblast cell line) whole cell extract

**Lane 8** : RAW 264.7 (mouse macrophage cell line transformed

with Abelson murine leukemia virus) whole cell extract

**Lane 9 :** C2C12 (mouse myoblast cell line) whole cell extract

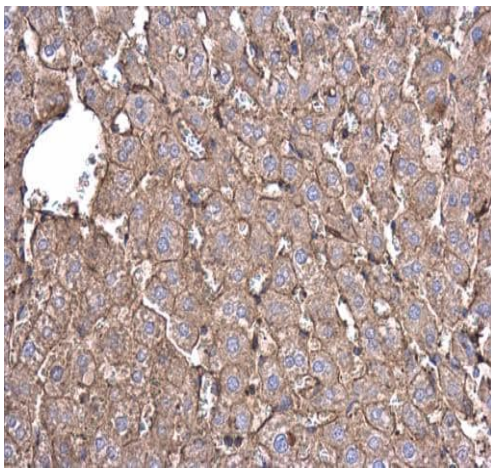
Lysates/proteins at 30 µg per lane.

### Secondary

**All lanes :** HRP-conjugated anti-rabbit IgG

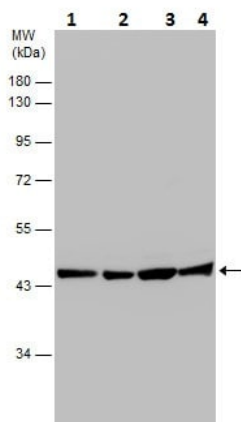
**Predicted band size:** 42 kDa

10% SDS-PAGE gel.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-beta Actin antibody (ab227387)

Paraffin-embedded rat liver tissue stained for beta Actin using ab227387 at 1/500 dilution in immunohistochemical analysis.



Western blot - Anti-beta Actin antibody (ab227387)

**All lanes :** Anti-beta Actin antibody (ab227387) at 1/20000 dilution

**Lane 1 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract

**Lane 2 :** A431 (human epidermoid carcinoma cell line) whole cell extract

**Lane 3 :** HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract

**Lane 4 :** HepG2 (human liver hepatocellular carcinoma cell line) whole cell extract

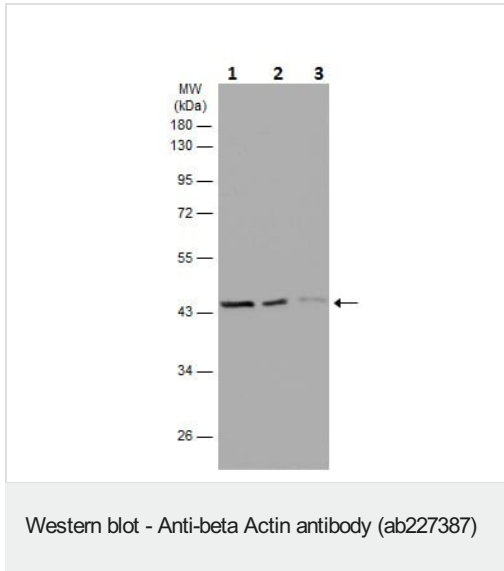
Lysates/proteins at 30 µg per lane.

### Secondary

**All lanes :** HRP-conjugated anti-rabbit IgG

**Predicted band size:** 42 kDa

10% SDS-PAGE gel.



**All lanes :** Anti-beta Actin antibody (ab227387) at 1/10000 dilution

**Lane 1 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract at 15  $\mu$ g

**Lane 2 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract at 5  $\mu$ g

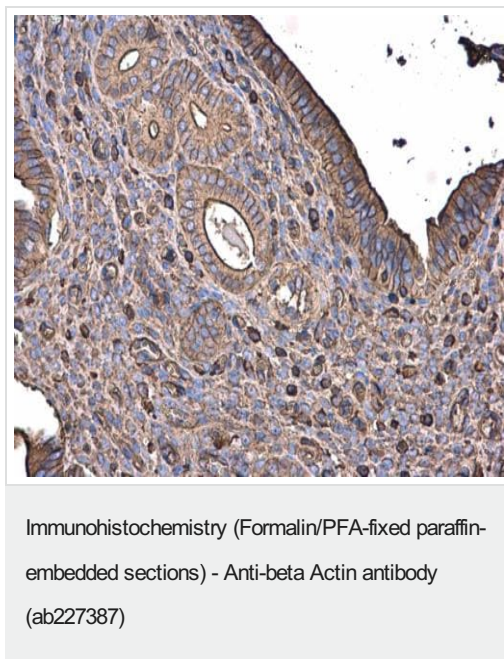
**Lane 3 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract at 2  $\mu$ g

**Secondary**

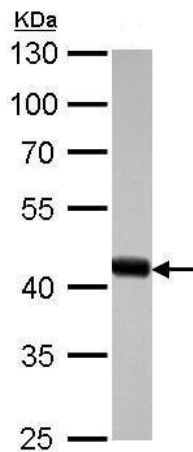
**All lanes :** HRP-conjugated anti-rabbit IgG

**Predicted band size:** 42 kDa

10% SDS-PAGE gel.



Paraffin-embedded mouse cervix tissue stained for beta Actin using ab227387 at 1/500 dilution in immunohistochemical analysis.



Western blot - Anti-beta Actin antibody (ab227387)

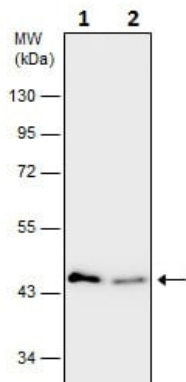
Anti-beta Actin antibody (ab227387) at 1/10000 dilution +  
Drosophila melanogaster lysate at 30 µg

#### Secondary

HRP-conjugated anti-rabbit IgG

**Predicted band size:** 42 kDa

10% SDS-PAGE gel.



Western blot - Anti-beta Actin antibody (ab227387)

**All lanes :** Anti-beta Actin antibody (ab227387) at 1/15000 dilution

**Lane 1 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract

**Lane 2 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with beta Actin shRNA, whole cell extract

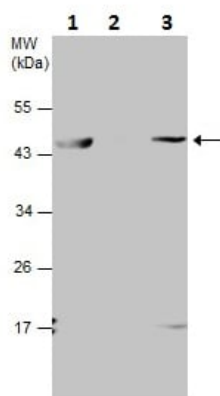
Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** HRP-conjugated anti-rabbit IgG

**Predicted band size:** 42 kDa

10% SDS-PAGE gel.



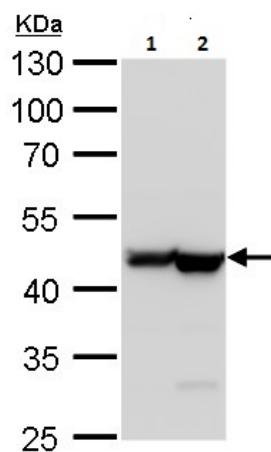
Immunoprecipitation - Anti-beta Actin antibody  
(ab227387)

beta Actin was immunoprecipitated from HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract with 5  $\mu$ g of ab227387. Western blot was performed from the immunoprecipitate using ab227387. Anti-rabbit IgG was used as secondary antibody.

**Lane 1:** HEK-293T whole cell extract (Input).

**Lane 2:** Control IgG instead of ab227387 in HEK-293T whole cell extract.

**Lane 3:** ab227387 IP in HEK-293T whole cell extract.



Western blot - Anti-beta Actin antibody (ab227387)

**All lanes :** Anti-beta Actin antibody (ab227387) at 1/20000 dilution

**Lane 1 :** PC-12 (rat adrenal gland pheochromocytoma cell line) whole cell lysate

**Lane 2 :** Rat2 (rat fibroblast cell line) whole cell lysate

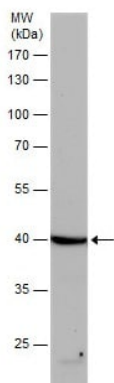
Lysates/proteins at 30  $\mu$ g per lane.

**Secondary**

**All lanes :** HRP-conjugated anti-rabbit IgG

**Predicted band size:** 42 kDa

10% SDS-PAGE gel.



Western blot - Anti-beta Actin antibody (ab227387)

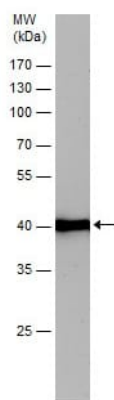
Anti-beta Actin antibody (ab227387) at 1/20000 dilution + Mouse liver tissue extract at 50 µg

#### Secondary

HRP-conjugated anti-rabbit IgG

**Predicted band size:** 42 kDa

10% SDS-PAGE gel.



Western blot - Anti-beta Actin antibody (ab227387)

Anti-beta Actin antibody (ab227387) at 1/20000 dilution + Rat liver tissue extract at 50 µg

#### Secondary

HRP-conjugated anti-rabbit IgG

**Predicted band size:** 42 kDa

10% SDS-PAGE gel.

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