

### Anti-beta Actin antibody [BA3R] ab92436

#### 5 图像

#### 概述

<b>产品名称</b>	Anti-beta Actin抗体[BA3R]
<b>描述</b>	小鼠单克隆抗体[BA3R] to beta Actin
<b>宿主</b>	Mouse
<b>特异性</b>	Recognizes native and denatured forms of $\beta$ -Actin (~42kDa)
<b>经测试应用</b>	<b>适用于:</b> ELISA, Dot blot, WB, Flow Cyt, ICC/IF, IP
<b>种属反应性</b>	<b>与反应:</b> Mouse, Rat, Rabbit, Chicken, Human <b>预测可用于:</b> Sheep, Horse, Guinea pig, Hamster, Cow, Pig, Chimpanzee, Cynomolgus monkey, Japanese ricefish, Orangutan 
<b>免疫原</b>	Synthetic peptide corresponding to amino acids 2 - 15 (DDDIAALVVDNGSG) of Human beta Actin cytoplasmic domain (slightly modified) <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>阳性对照</b>	293 cell lysate. This antibody gave a positive result when used in the following methanol fixed cell line: HeLa.

#### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>存储溶液</b>	pH: 7.20 Preservative: 0.05% Sodium azide Constituent: 0.0268% PBS
<b>纯度</b>	Ascites
<b>纯化说明</b>	Protein A affinity chromatography
<b>克隆</b>	单克隆
<b>克隆编号</b>	BA3R
<b>同种型</b>	IgG2b

#### 应用

The Abpromise guarantee

**Abpromise™** 承诺保证使用ab92436于以下的经测试应用

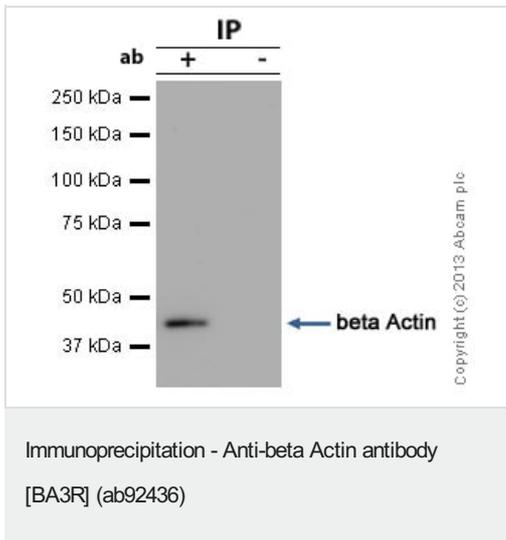
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ELISA		Use at an assay dependent concentration.
Dot blot		Use at an assay dependent concentration.
WB		1/1000 - 1/3000. Predicted molecular weight: 42 kDa.
Flow Cyt		Use 0.1-1µg for 10 <sup>6</sup> cells. <b>ab170192</b> - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
ICC/IF		Use a concentration of 10 µg/ml.
IP		Use a concentration of 5 µg/ml.

## 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



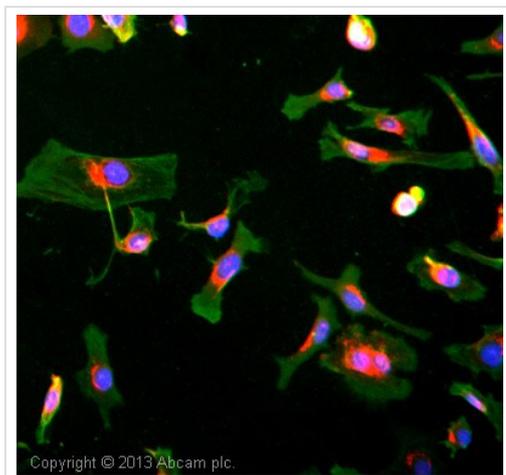
beta Actin was immunoprecipitated using 0.5mg HeLa whole cell extract, 5µg of Mouse monoclonal to beta Actin and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, HeLa whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

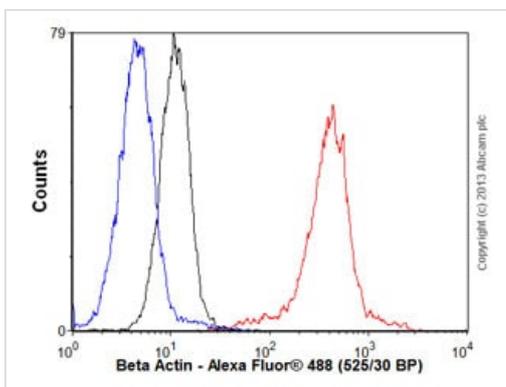
Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab92436.

Secondary: Goat polyclonal to mouse IgG light chain specific (HRP) at 1/20,000 dilution.

Band: 42kDa; beta Actin



ICC/IF image of ab92436 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab92436 at 10 µg/mL overnight at +4°C. The secondary antibody (green) was a goat **anti-mouse DyLight® 488** (IgG; H+L) (**ab96879**) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

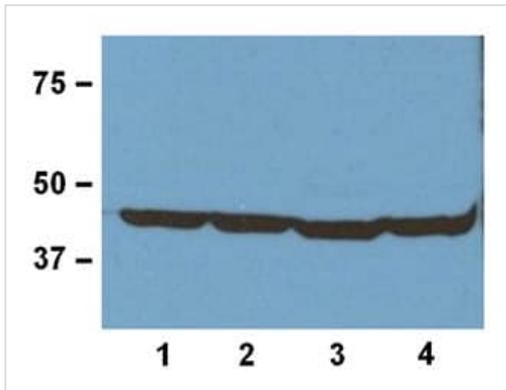


Overlay histogram showing HeLa cells stained with ab92436 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab92436, 0.1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was a goat **anti-mouse Alexa Fluor® 488** (IgG; H+L) (**ab150113**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (**ab91366**, 1µg/1x10<sup>6</sup> cells) used under the same conditions.

Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a

positive signal in HeLa cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Western blot - Anti-beta Actin antibody [BA3R]  
(ab92436)

**All lanes** : Anti-beta Actin antibody [BA3R] (ab92436) at 1/1000 dilution

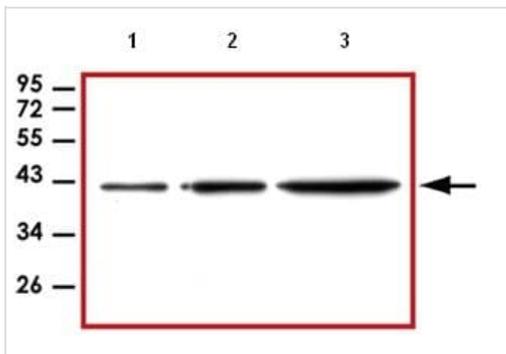
**Lane 1** : Human at 20  $\mu\text{g/ml}$

**Lane 2** : Mouse at 20  $\mu\text{g/ml}$

**Lane 3** : Rat at 20  $\mu\text{g/ml}$

**Lane 4** : Rabbit at 20  $\mu\text{g/ml}$

**Predicted band size:** 42 kDa



Western blot - Anti-beta Actin antibody [BA3R]  
(ab92436)

**All lanes** : Anti-beta Actin antibody [BA3R] (ab92436) at 1/1000 dilution

**Lane 1** : 293 cell lysate at 3  $\mu\text{g}$

**Lane 2** : 293 cell lysate at 10  $\mu\text{g}$

**Lane 3** : 293 cell lysate at 30  $\mu\text{g}$

**Predicted band size:** 42 kDa

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