

## 11-13012: Polyclonal Antibody to Beta actin

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	WB
<b>Reactivity :</b>	Rat,Mouse,Human
<b>Gene :</b>	ACTB
<b>Gene ID :</b>	60
<b>Uniprot ID :</b>	P60709
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Actin, cytoplasmic 1, ACTB
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	A partial length recombinant Beta actin protein (amino acids 1-200) was used as the immunogen for this antibody.

### Description

Beta actin (ACTB) has traditionally been regarded as an endogenous housekeeping gene and has been widely used as a reference gene/protein in quantifying expression levels in tumors. It supports fundamental cellular processes in healthy and diseased cells including cell adhesion, migration, cytokinesis and maintenance of cell polarity. However, Beta actin is closely associated with a variety of cancers and accumulating evidence indicates that Beta actin is de-regulated in liver, melanoma, renal, colorectal, gastric, pancreatic, esophageal, lung, breast, prostate, ovarian cancers, leukemia and lymphoma. This protein is generally found to be up-regulated in the majority of tumor cells and tissues.

### Product Info

<b>Amount :</b>	25 µg / 100 µg
<b>Purification :</b>	Protein A Chromatography
<b>Content :</b>	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

Western blot analysis: 4-6 µg/ml:

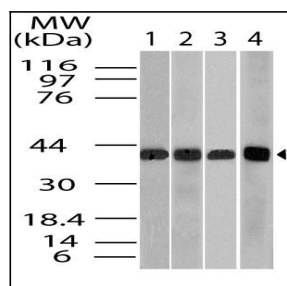


Figure-1: Western blot analysis of Beta actin. Anti- Beta actin antibody (11-13012) was used at 4 µg/ml on 1) Raw, 2) 3T3, 3) HeLa and 4) U87 lysates.

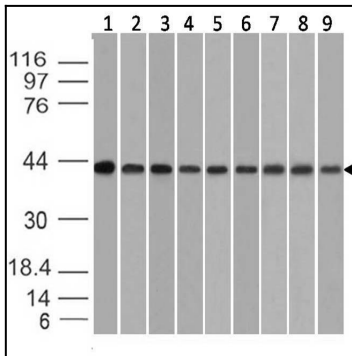


Figure-2: Western blot analysis of Beta actin. Anti- Beta actin antibody (11-13012) was used at 1  $\mu$ g/ml on (1) Miapica-2, (2) HepG2, (3) Jurkat, (4) HCT-116, (5) 293, (6) THP1, (7) A549, (8) C2C12 and (9) MCF-7 lysates.

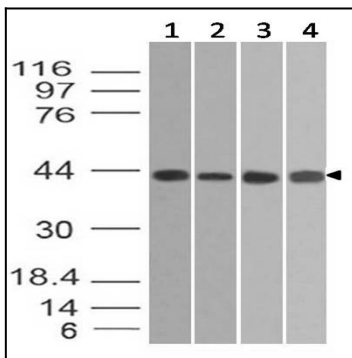


Figure-3: Western blot analysis of Beta actin. Anti- Beta actin antibody (11-13012) was used at 2  $\mu$ g/ml on (1) Rat Spleen, (2) Human Intestine, (3) Mouse Spleen and (4) BV2 lysates.