

11-13012: Polyclonal Antibody to Beta actin

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

Description

B-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, B-actin is closely associated with a variety of cancers and accumulating evidence indicates that B-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

Amount :	25 µg / 100 µg
Purification :	Protein A Chromatography
Content :	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.
Storage condition :	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:

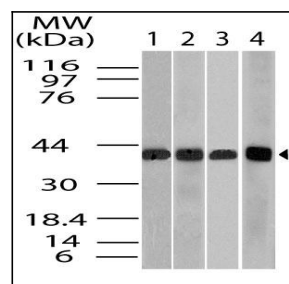


Figure-1: Western blot analysis of Beta actin. Anti- Beta actin antibody (11-13012) was used at 4 µg/ml on 1) Raw, 2) 3T3, 3) HeLa and 4) U87 lysates.

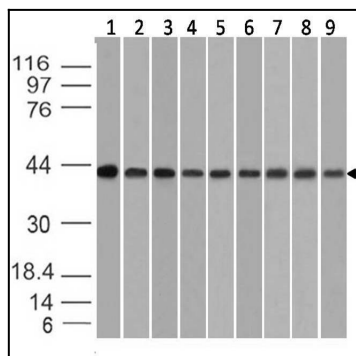


Figure-2: Western blot analysis of Beta actin. Anti- Beta actin antibody (11-13012) was used at 1 μ g/ml on (1) Miapica-2, (2) HepG2, (3) Jurkat, (4) HCT-116, (5) 293, (6) THP1, (7) A549, (8) C2C12 and (9) MCF-7 lysates.

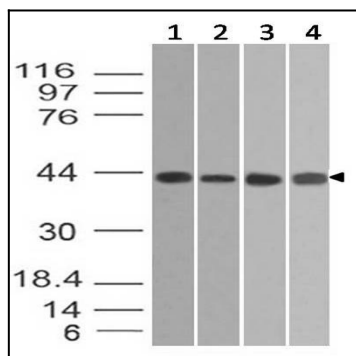


Figure-3: Western blot analysis of Beta actin. Anti- Beta actin antibody (11-13012) was used at 2 μ g/ml on (1) Rat Spleen, (2) Human Intestine, (3) Mouse Spleen and (4) BV2 lysates.