

Rabbit Anti-human β -Actin (ACTB)
polyclonal antibody
Catalog Number: R15006P



General Information

Immunogen	Full length recombinant human β -actin protein
IgG type	Rabbit IgG
Clonality	Monoclonal
Applications	ELISA, WB, IF
Specificity	β -actin from human, mouse, rat, pig
Formulation	0.22 μ M filtered solution of PBS, 0.09% NaN ₃ , 50% glycerol, pH 7.4
Purity	> 95% determined by SDS-PAGE
Storage	\leq -20 °C for 1 year or 4 °C for 3 months

Abbreviations:

ELISA: Enzyme-linked immunosorbent assay; ITA: immunoturbidimetric assay; IP: immunoprecipitation; IHC: immuno-histochemistry; IF: immunofluorescence. WB: western blot;

Preparation

Polyclonal antibody is produced by immunizing rabbit with full length human β -actin and purified using protein A resin.

Application

Western blot

1 2 3

72 KD -
56 KD -
40 KD -
33 KD -
24 KD -

17 KD -

10 KD -

Western blot conditions

Lanes:
1. HELA (human)
2. EL4.BU.1.OUAR.1.1 (mouse)
3. PC12 (rat)
Each lane was loaded with 10 ug cell lysate.

mAb dilution: 1:1000

Blocking and antibody dilution buffer is 5% skim milk (w/v), 1x TBS, 0.05% Tween-20.

Storage

This antibody is shipped at 4 °C. This product is stable for 12 months from date of receipt when stored at -20 °C to -70 °C. Avoid freeze/thaw cycles.

Hazard/Biohazard

This antibody contains 0.09% sodium azide as preservative. Please handle and dispose the product properly. No known biohazard is associated with this product.

Background

β -actin is a member of highly conserved actins that are involved in cell motility, structure, and integrity. β -actin exists in two forms in cytoplasm: globular actin monomer (G-actin) with molecular weight approximately 42 kDa and fibrous polymer (F-actin). Due to its ubiquitous expression in eukaryotic cells, β -actin is widely used as a loading control for western blotting, markers for the integrity of cells. Defects in β -actin are a cause of dystonia juvenile-onset (DYTJ), often leading to abnormal postures, dopa-unresponsive dystonia, developmental malformations, and hearing loss. Research studies have also demonstrated that actin is associated with malignancies such as breast cancer and lymphoma.

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