

# $\beta$ -actin-HRP

**Cat. QYA10733AHRP**

## **Background**

This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, integrity, and intercellular signaling. The encoded protein is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins that are ubiquitously expressed. Mutations in this gene cause Baraitser-Winter syndrome 1, which is characterized by intellectual disability with a distinctive facial appearance in human patients. Numerous pseudogenes of this gene have been identified throughout the human genome.

## **Source**

$\beta$ -actin-HRP mouse monoclonal antibody is produced by immunizing animals with the internal region of human  $\beta$ -actin protein, which was conjugated to HRP. The antibody was affinity-purified by affinity-chromatography using specific immunogen.

## **Product**

Each vial contains 50ug mouse IgG diluted in 100ul of PBS pH7.4, containing 1mg/ml BSA, 0.01% thiomersal and 50% glycerol. The antibody concentration is 0.5mg/ml.

## **Specificity**

The antibody detects endogenous  $\beta$ -actin proteins.

## **Applications and Suggested Working Concentration**

WB: 1:5000-1:10000

IHC: 1:200

## **Storage**

Storage at -20°C. Do not aliquot the antibody. Stable for one year from the date of shipment.

## **Research Use**

For research use only, not for use in diagnostic procedures.

## β-actin Mouse mAb

<b>Catalog No.</b>	QYA10733AHRP
<b>Size.</b>	100ul
<b>Gene Name.</b>	ACTB
<b>Protein Name.</b>	actin beta
<b>Source.</b>	Mouse
<b>Immunogen.</b>	Synthesized peptide
<b>Purification.</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using specific immunogen.
<b>Specificity.</b>	The antibody detects endogenous β-actin protein.
<b>Formulation.</b>	PBS, pH 7.4, containing 0.01% thiomersal and 50% Glycerol.
<b>Concentration.</b>	0.5 mg/ml
<b>Storage / Stability.</b>	-20°C/1 year
<b>Human Gene ID.</b>	60
<b>Human Swiss-Prot No.</b>	P60709
<b>Mouse Gene ID</b>	11461
<b>Mouse Swiss-Prot No.</b>	P60710
<b>Rat Gene ID</b>	81822
<b>Rat Swiss-Prot No.</b>	P60711
<b>Reactivity.</b>	H, R, M, Mk, Dg, Ch, Hm, Rb, Insect
<b>Applications.</b>	WB, IHC
<b>Predicted band (Da)</b>	41737
<b>Observed band (KDa)</b>	43
<b>Dilution.</b>	WB:1:5000, IHC:1:200
<b>Other name.</b>	ACTB; Actin, cytoplasmic 1; Beta-actin