

Beta-Actin Antibody (Clone BA3R)
Mouse Monoclonal Antibody
Catalog # ABV10443**Specification**

Beta-Actin Antibody (Clone BA3R) - Product Information

Application	WB
Primary Accession	P60709
Reactivity	Human, Mouse, Rat, Rabbit
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b
Calculated MW	41737

Beta-Actin Antibody (Clone BA3R) - Additional Information**Gene ID 60**

Positive Control	Tissue lysates of human, mouse, rat and rabbit origin
Application & Usage	Western blot: ~1:1000 - 1:5000.
Other Names	
PS1TP5BP1 , ACTB, Beta-actin , b-actin	

Target/Specificity
Beta-Actin**Antibody Form**
Liquid**Appearance**
Colorless liquid**Formulation**
1 mg/mL in 10 mM PBS, pH 7.2, with 0.05% NaN₃**Handling**
The antibody solution should be gently mixed before use.**Reconstitution & Storage**
-20 °C**Background Descriptions****Precautions**

Beta-Actin Antibody (Clone BA3R) is for research use only and not for use in diagnostic or therapeutic procedures.

Beta-Actin Antibody (Clone BA3R) - Protein Information

Name ACTB

Function

Actin is a highly conserved protein that polymerizes to produce filaments that form cross-linked networks in the cytoplasm of cells (PubMed:25255767, PubMed:29581253). Actin exists in both monomeric (G-actin) and polymeric (F-actin) forms, both forms playing key functions, such as cell motility and contraction (PubMed:29581253). In addition to their role in the cytoplasmic cytoskeleton, G- and F- actin also localize in the nucleus, and regulate gene transcription and motility and repair of damaged DNA (PubMed:29925947). Part of the ACTR1A/ACTB filament around which the dynactin complex is built. The dynactin multiprotein complex activates the molecular motor dynein for ultra-processive transport along microtubules (By similarity).

Cellular Location

Cytoplasm, cytoskeleton. Nucleus Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

Beta-Actin Antibody (Clone BA3R) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Beta-Actin Antibody (Clone BA3R) - Images

Beta-Actin Antibody (Clone BA3R) - Background

Actin is expressed in all eukaryotic cells and is the major component of the cytoskeleton. At least six types of actin are present in mammalian tissues and fall into three classes. Alpha actin expression is limited to various types of muscle and it regulates contractile potentials for the muscle cells, whereas beta and gamma actin, also known as cytoplasmic actin, are predominantly expressed in nonmuscle cells, controlling cell structure and motility.