Product datasheet for **TA310155**

**beta Actin (ACTB) Mouse Monoclonal Antibody [Clone ID: 8H10]**

**Product data:**

**Product Type:** Primary Antibodies

**Clone Name:** 8H10

**Applications:** WB

**Recommend Dilution:** WB 1:1000 - 1:10000

**Reactivity:** Human, Monkey, Mouse, Rat, Dog

**Host:** Mouse

**Isotype:** IgG

**Clonality:** Monoclonal

**Immunogen:** Beta-actin N-terminal peptide-KLH conjugates

**Formulation:** PBS, pH 7.4 with 0.05% sodium azide.

**Concentration:** 1 mg/ml

**Purification:** Affinity purified

**Gene Name:** actin, beta

**Database Link:** [NP_001092 Entrez Gene 11461 MouseEntrez Gene 81822 RatEntrez Gene 403580 DogEntrez Gene 574285 MonkeyEntrez Gene 60 Human](#)

**Background:**

Actins are highly conserved proteins that are involved in cell motility, structure and integrity, processes that are crucial for tissue development and the development of organism. The actin cytoskeleton is one of the principal drivers of cell motility and is capable of responding to complex signaling cascades. Recent evidence suggests that it may play key roles in regulating apoptosis and aging. beta actin is one of six different actin isoforms which have been identified. Like GAPDH, ?-actin is constitutively expressed at high levels in almost all tissues and cell lines making it ideal for use as a loading control marker in immunoblots.

**Synonyms:** BRWS1; PS1TP5BP1

**Protein Families:** ES Cell Differentiation/IPS

**Protein Pathways:** Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Focal adhesion, Hypertrophic cardiomyopathy (HCM), Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, Tight junction, Vibrio cholerae infection, Viral myocarditis

Figure from citation: Western blot analysis of ACTB protein level by using anti-ACTB antibody in fibroblasts, ACTB used as loading control. [View Citation]

Figure from citation: Western Blot of ACTB (beta-actin) protein level by using anti-ACTB antibody in normal human uveal (control) and human uveal melanoma (UM) samples. Dilution: 1:1000 [View Citation]