

## Product datasheet for **TA399803**

### **ACTA1 Rabbit Monoclonal Antibody [Clone ID: 3G8C7A6]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	3G8C7A6
<b>Applications:</b>	ELISA, IHC
<b>Reactivity:</b>	Human
<b>Modifications:</b>	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2b format for improved compatibility with existing reagents assays and techniques.
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG, kappa
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	The original antibody was generated by immunizing BALB/c mice with a recombinant human actin protein.
<b>Specificity:</b>	<p>This antibody binds actin. Actin is a type of spherical multi-functional protein that forms a microfilament. Actin is widely existent in eukaryotic organisms, and there is a major component constituting the muscle segment and the cell skeleton in the cytoplasm and cellular nucleus of the intramuscular cell. Muscle specific actin (MSA) is a highly conserved, ubiquitous protein found in muscle and some non-muscle cells. In addition to participating in the normal morphology of maintaining cells, actin also participates in the formation, adhesion, migration, apoptosis, material transport, transmembrane information transfer, and receptor aggregation.</p>

This antibody is highly similar to the commercially available anti-actin antibody HHF35. This antibody can be used in the immunohistochemical staining of smooth fibroids. This antibody can be used in the identification of actin from various tissues including brain, heart, cerebellum, esophageal, adrenal, stomach, ovaries, small intestines, pancreatic, colorectal, parathyroid, liver, pituitary, salivary gland, testicular, kidney, thyroid, prostate, breast, uterus, spleen, bladder, tonsil, skeletal muscle, thymus (young children), skin, bone marrow, peripheral nerve, lung, melanocytes. The binding specificity of this antibody towards actin was determined using ELISA. The original IgG2b antibody binds actin with an affinity constant of  $6.26 \times 10^9 \text{ M}^{-1}$  (CN113817055).



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<b>Formulation:</b>	PBS with 0.02% Proclin 300.
<b>Concentration:</b>	lot specific
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.
<b>Database Link:</b>	<a href="#">P68133</a>
<b>Synonyms:</b>	ACTA; ACTA1; Actin; Actin alpha skeletal muscle; Alpha-actin-1; CGMCNO.22312; HHF35; MSA; Muscle specific actin