# ACTG2 (h): 293T Lysate: sc-176378



The Power to Question

## **BACKGROUND**

All eukaryotic cells express Actin, which often constitutes as much as 50% of total cellular protein. Actin filaments can form both stable and labile structures and are crucial components of microvilli and the contractile apparatus of muscle cells. While lower eukaryotes, such as yeast, have only one Actin gene, higher eukaryotes have several isoforms encoded by a family of genes. 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, whereas  $\beta$ -and  $\gamma$ -Actin are the principle constituents of filaments in other tissues. ACTG2 (Actin,  $\gamma$ 2, smooth muscle, enteric), also known as ACT, ACTE, ACTA3 or ACTL3, is a 376 amino acid  $\gamma$ -Actin that localizes to both the cytoplasm and the cytoskeleton and, like other Actins, is involved in various types of cell motility and structural maintenance.

## **REFERENCES**

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## CHROMOSOMAL LOCATION

Genetic locus: ACTG2 (human) mapping to 2p13.1.

## **PRODUCT**

ACTG2 (h): 293T Lysate represents a lysate of human ACTG2 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

#### **APPLICATIONS**

ACTG2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive ACTG2 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

#### **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## **RESEARCH USE**

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

#### **PROTOCOLS**

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