bs-12368R **[Primary Antibody]**

ACTG2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 72 **SWISS:** P63267

Target: ACTG2

Immunogen: KLH conjugated synthetic peptide derived from human ACTG2/Gamma 2 actin: 21-120/376.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Actins are highly conserved proteins that are involved in various types of cell motility and in the maintenance of the cytoskeleton. Three types of actins, alpha, beta and gamma, have been identified in vertebrates. Alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins co-exist in most cell types as components of the cytoskeleton and as mediators of internal cell motility. This gene encodes actin gamma 2; a smooth muscle actin found in enteric tissues. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Based on similarity to peptide cleavage of related actins, the mature protein of this gene is formed by removal of two N-terminal peptides.[provided by RefSeq, Dec 2010]

Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: (predicted: Human, Mouse, Rat, Rabbit, Pig, Cow, Chicken)

Predicted MW.: 42 kDa

Subcellular Location: Cytoplasm

SELECTED CITATIONS

- **[IF=5.4]** Shutao Pan. et al. Banxia Xiexin decoction promotes gastric lymphatic pumping by regulating lymphatic smooth muscle cell contraction and energy metabolism in a stress-induced gastric ulceration rat model. J ETHNOPHARMACOL. 2024 Jun;328:118015 WB ;Rat. 38499261
- **[IF=3.96]** Hui Cai. et al. Heterozygous Actg2R257C mice mimic the phenotype of megacystis microcolon intestinal hypoperistalsis syndrome. NEUROGASTROENT MOTIL. 2022 Oct;:e14472 IHC,IF,WB ;Mouse. 36264152
- **[IF=2.5]** Jie Zhou. et al. Actg2D245G mutation cause megacystis-microcolon-intestinal hypoperistalsis syndrome by impairing smooth muscle contractility. J PEDIATR SURG. 2025 Jul;:162446 IHC,WB ;Mouse. 40617346