

Actin α 3 rabbit pAb**Cat#: orb764466 (Manual)**

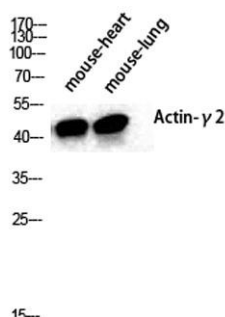
For research use only. Not intended for diagnostic use.

Product Name	Actin α 3 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human Actin-gamma2. AA range:1-50
Specificity	Actin α 3 Polyclonal Antibody detects endogenous levels of Actin α 3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Actin gamma-enteric smooth muscle
Gene Name	ACTG2
Cellular localization	Cytoplasm, cytoskeleton.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

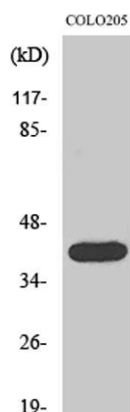
Concentration	1 mg/ml
Observed band	45kD
Human Gene ID	72
Human Swiss-Prot Number	P63267
Alternative Names	ACTG2; ACTA3; ACTL3; ACTSG; Actin; gamma-enteric smooth muscle; Alpha-actin-3; Gamma-2-actin; Smooth muscle gamma-actin

Background

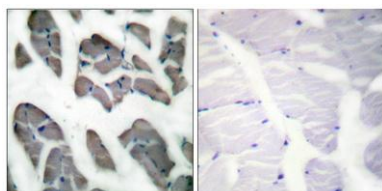
Actins are highly conserved proteins that are involved in various types of cell motility and in the maintenance of the cytoskeleton. Three types of actins, alpha, beta and gamma, have been identified in vertebrates. Alpha actins are found in muscle tissues and are a major constituent of the contractile 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],



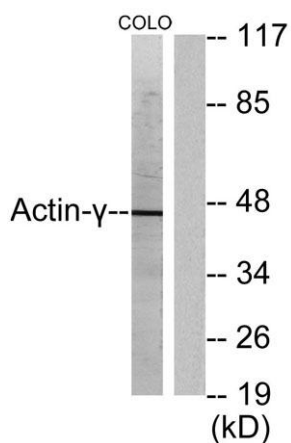
Western Blot analysis of various cells using Actin $\alpha 3$ Polyclonal Antibody diluted at 1:2000



Western Blot analysis of COLO205 cells using Actin α 3 Polyclonal Antibody diluted at 1:2000



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue, using Actin-gamma2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COLO205 cells, using Actin-gamma2 Antibody. The lane on the right is blocked with the synthesized peptide.