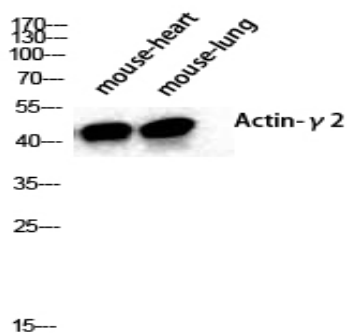


Actin α 3 Polyclonal Antibody

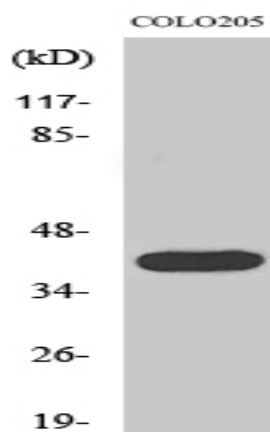
Catalog No :	YT0098
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	Actin α 3
Fields :	>>Vascular smooth muscle contraction
Gene Name :	ACTG2
Protein Name :	Actin gamma-enteric smooth muscle
Human Gene Id :	72
Human Swiss Prot No :	P63267
Mouse Gene Id :	11468
Mouse Swiss Prot No :	P63268
Rat Gene Id :	25365
Rat Swiss Prot No :	P63269
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.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	45kD
Cell Pathway :	Vascular smooth muscle contraction;
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],
Function :	function:Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.,miscellaneous:In vertebrates 3 main groups of actin isoforms, alpha, beta and gamma have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins coexist in most cell types as components of the cytoskeleton and as mediators of internal cell motility.,similarity:Belongs to the actin family.,subunit:Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to 4 others.,
Subcellular Location :	Cytoplasm, cytoskeleton.
Expression :	In the intestine, abundantly expressed in smooth muscle cells of muscularis mucosa and muscularis propria. Also detected in intestinal vascular smooth muscle cells.

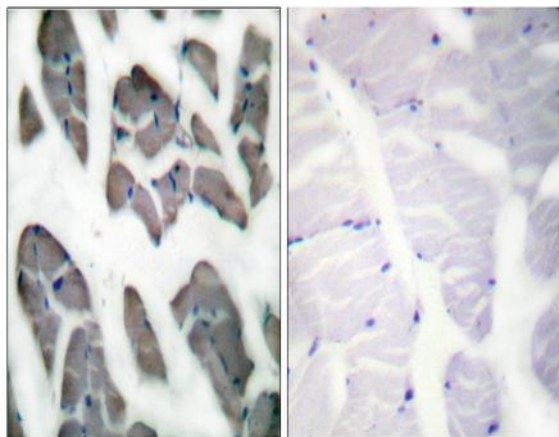
Products Images



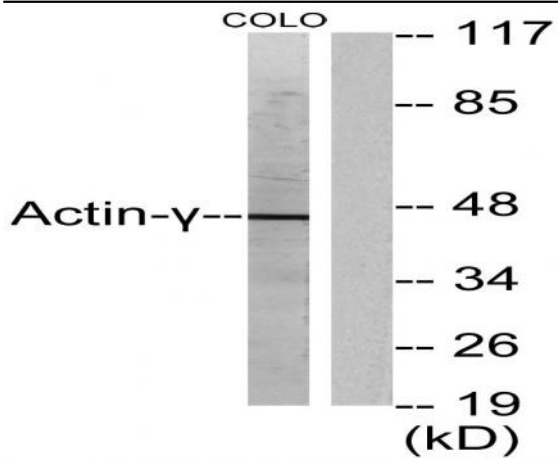
Western Blot analysis of various cells using Actin $\alpha 3$ Polyclonal Antibody diluted at 1:2000



Western Blot analysis of COLO205 cells using Actin $\alpha 3$ 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.