



# Actin $\alpha$ 1 rabbit pAb

Cat No.:ES1590

For research use only

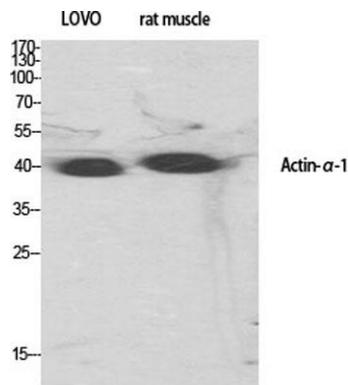
## Overview

<b>Product Name</b>	Actin $\alpha$ 1 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human Actin-alpha-1. AA range:1-50
<b>Specificity</b>	Actin $\alpha$ 1 Polyclonal Antibody detects endogenous levels of Actin $\alpha$ 1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Actin alpha skeletal muscle
<b>Gene Name</b>	ACTA1
<b>Cellular localization</b>	Cytoplasm, cytoskeleton.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	45kD
<b>Human Gene ID</b>	58
<b>Human Swiss-Prot Number</b>	P68133
<b>Alternative Names</b>	ACTA1; ACTA; Actin; $\alpha$ skeletal muscle; Alpha-actin-1
<b>Background</b>	The product encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a

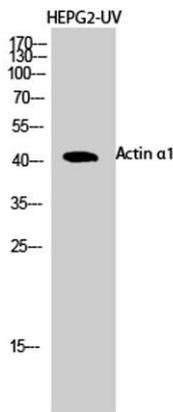




major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Mutations in this gene cause nemaline myopathy type 3, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects. [provided by RefSeq, Jul 2008],



Western Blot analysis of various cells using Actin  $\alpha$ 1  
Polyclonal Antibody diluted at 1:500

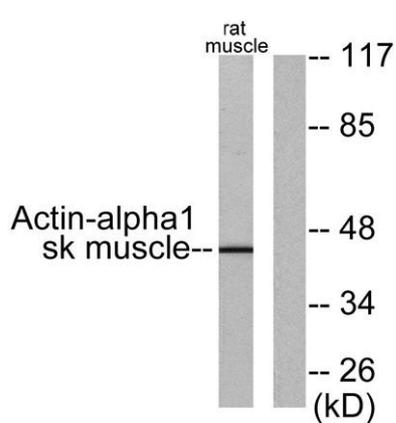
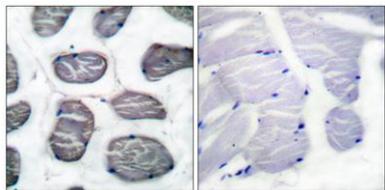


Western Blot analysis of HEPG2-UV cells using Actin  $\alpha$ 1  
Polyclonal Antibody diluted at 1:500





Immunohistochemistry analysis of paraffin-embedded human muscle tissue, using Actin-alpha-1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from rat muscle cells, using Actin-alpha-1 Antibody. The lane on the right is blocked with the synthesized peptide.

