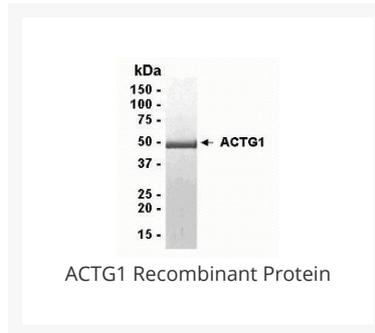




ACTG1 Recombinant Protein

Cat. No.: XW-RP3002



Ψ Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	aa. 1-375
TESTED APPLICATIONS:	ELISA, MS, WB
APPLICATIONS:	This recombinant protein can be used for WB, ELISA, MS.
PREDICTED MOLECULAR WEIGHT:	41.8 kDa (Calculated)

Ψ Properties

PURITY:	>95%
PHYSICAL STATE:	Liquid
BUFFER:	10 mM Tris, pH 8.0, 0.1% Triton X-100, 0.002% NaN ₃
STORAGE CONDITIONS:	Store in working aliquots at -70 °C. Avoid freeze/thaw cycles. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

OFFICIAL SYMBOL:	ACTG1
ALTERNATE NAMES:	ACT, ACTG, BRWS2, DFNA20, DFNA26, HEL-176, ACTB, Actin, cytoplasmic 2, Gamma-actin
ACCESSION NO.:	NP_001605
PROTEIN GI NO.:	4501887
GENE ID:	71

Background and References

BACKGROUND:	<p>Actins are highly conserved proteins that are involved in various types of cell motility, and maintenance of the cytoskeleton. In vertebrates, three main groups of actin isoforms, α, β and γ have been identified. The α actins are found in muscle tissues and are a major constituent of the contractile apparatus. The β and γ actins co-exist in most cell types as components of the cytoskeleton, and as mediators of internal cell motility. Actin, γ 1, encoded by this gene, is a cytoplasmic actin found in nonmuscle cells.</p> <p>FUNCTION: Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.</p> <p>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.</p>
REFERENCES:	<p>1) Cheng,C. and Sharp,P.A.: RNA polymerase II accumulation in the promoter-proximal region of the dihydrofolate reductase and gamma-actin genes. Mol. Cell. Biol. 23 (6), 1961-1967 (2003)</p>

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