

AP06487PU-N**Polyclonal Antibody to pan Actin - Aff - Purified**

Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	Beta actin is one of six different actin isoforms which have been identified. Actins are highly conserved proteins that are involved in cell motility, structure and integrity. Be aware when using beta actin antibodies as loading controls that although beta actin is normally the best protein to use as a loading control, under some conditions its amounts can vary between samples. In particular, expression of actin in adipose tissue is very low (Spiegelman and Farmer, Cell, 1982, 29(1):53-60) "in cells undergoing adipose differentiation actin synthesis decreases by 90%".
Host:	Rabbit
Immunogen:	Synthetic peptide, corresponding to the N-terminal of Human Actin- α .
Format:	State: Liquid purified Ig fraction Purification: Affinity-chromatography (> 95% (by SDS-PAGE)) Buffer System: PBS, pH 7.2 Preservatives: 0.05% sodium azide
Applications:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections: 1/50 - 1/200. Immunofluorescence: 1/50 - 1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	~ 45 kDa
Specificity:	This antibody detects endogenous levels of Actin-pan ($\alpha/\beta/\gamma$) protein (region surrounding Gln49)
Species Reactivity:	Tested: Human. Expected from sequence similarity: Mouse and Rat
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Pictures:	Immunohistochemistry (IHC) analyzes of Actin-pan (alpha/beta/gamma) antibody (Cat.-No.: AP06487PU-N) in paraffin-embedded human skeletal muscle tissue. 

Western blot (WB) analysis of Actin-
alpha/gamma antibody (Cat.-No.:
AP06487PU-N) in extracts from mouse
heart.

