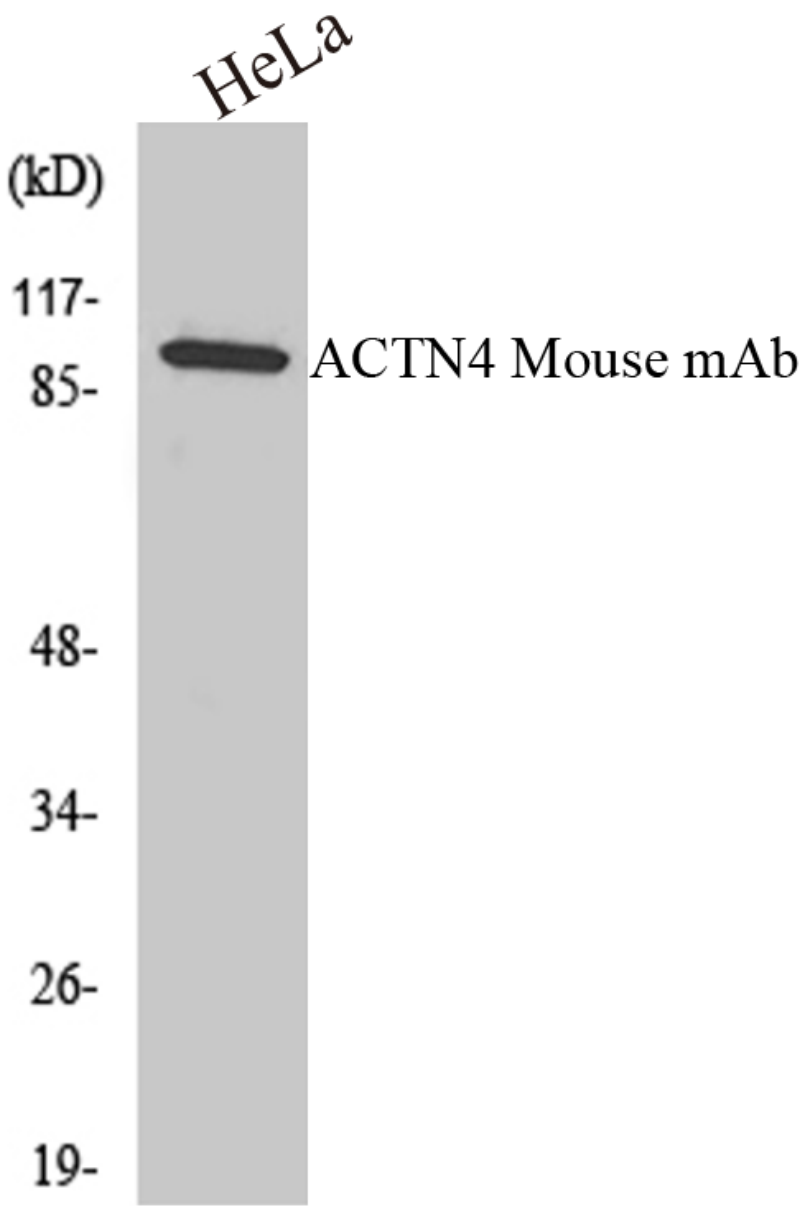
ACTN4 Mouse mAb

Catalog No	YP-mAb-18887
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ACTN4
Immunogen	Synthesized peptide derived from human ACTN4
Specificity	This antibody detects endogenous levels of ACTN4 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal,Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	actinin 4;Actinin alpha 4;actinin4;ACTN 4;ACTN4;ACTN4_HUMAN;Alpha-actinin-4;DKFZp686K23158;F actin cross linking protein;F-actin cross-linking protein; Focal segmental glomerulosclerosis 1;FSGS 1;FSGS;FSGS1;Non muscle alpha actinin 4;Non-muscle alpha-actinin 4;Alpha-actinin-4 (F-actin cross-linking protein) (Non-muscle alpha-actinin 4)
Observed Band	100kD
Calculated Molecular Weight	15 kDa; 15kD(Calculated).
Cell Pathway	Nucleus . Cytoplasm . Cell junction . Cytoplasm, cytoskeleton, stress fiber . Cytoplasm, perinuclear region . Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Expressed in the perinuclear rim and manchette structure in early elongating spermatids during spermiogenesis (By similarity). Nuclear translocation can be induced by the PI3 kinase inhibitor wortmannin or by cytochalasin D. Exclusively localized in the nucleus in a limited number of cell lines (breast cancer cell line MCF-7, oral floor cancer
Tissue Specificity	
Function	F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein (Probable). Probably involved in vesicular trafficking via its association with the CART complex. The CART

	complex is necessary for efficient transferrin receptor recycling but not for EGFR degradation . Involved in tight junction assembly in epithelial cells probably through interaction with MICALL2. Links MICALL2 to the actin cytoskeleton and recruits it to the tight junctions (By similarity). May also function as a transcriptional coactivator, stimulating transcription mediated by the nuclear hormone receptors PPARG and RARA .
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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