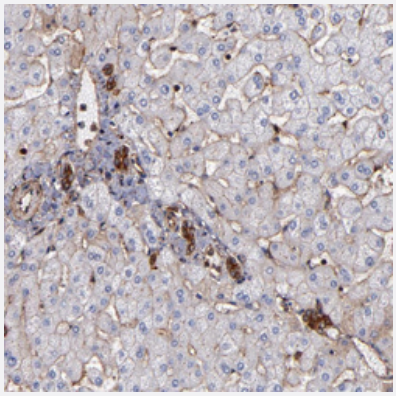
ACTN4 polyclonal antibody

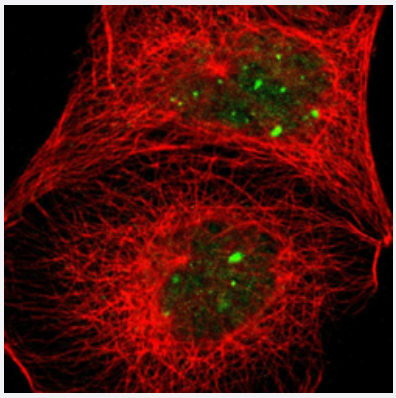
Catalog # PAB28526 Size 100 uL

Applications



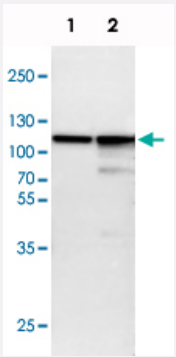
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human liver with ACTN4 polyclonal antibody (Cat # PAB28526) shows strong cytoplasmic and membranous positivity in lymphoid tissue in bile duct cells at 1:1000-1:2500 dilution.



Immunofluorescence

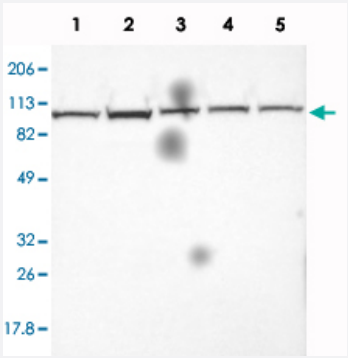
Immunofluorescent staining of human cell line A-431 with ACTN4 polyclonal antibody (Cat # PAB28526) at 1-4 ug/ml shows positivity in nucleus.



Western Blot (Cell lysate)

Western blot analysis of Lane 1: NIH-3T3 cell lysate (Mouse embryonic fibroblast cells), Lane 2: NBT-II cell lysate (Rat Wistar bladder tumour cells) with ACTN4 polyclonal antibody (Cat # PAB28526) at 1:100-1:500 dilution.

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Western Blot

Western blot analysis of Lane 1: RT-4, Lane 2: U-251 MG, Lane 3: A-431, Lane 4: Liver, Lane 5: Tonsil with ACTN4 polyclonal antibody (Cat # PAB28526) at 1:100-1:250 dilution.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant ACTN4.
Immunogen	Recombinant protein corresponding to amino acids of human ACTN4.
Sequence	MFIVHTIEEIEGLISAHDQFKSTLPDADRREAILAIHKEAQRIAESNHIKLSGSNPYTTVTPQIINSKW EKVQQLVPKRDHALLEEQSKQQSNEHLRRQFASQANVVGPWIQTKMEEIGRISIEMNGTLE
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1:100-1:500) Immunofluorescence (1-4 ug/ml) Immunohistochemistry (1:1000-1:2500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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Gene Info — ACTN4

Entrez GeneID	81
Protein Accession#	D6PXK4
Gene Name	ACTN4
Gene Alias	ACTININ-4, DKFZp686K23158, FSGS, FSGS1
Gene Description	actinin, alpha 4
Omim ID	603278 604638
Gene Ontology	Hyperlink
Gene Summary	Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This gene encodes a nonmuscle, alpha actinin isoform which is concentrated in the cytoplasm, and thought to be involved in metastatic processes. Mutations in this gene have been associated with focal and segmental glomerulosclerosis. [provided by RefSeq
Other Designations	actinin alpha4 isoform

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Pathway

- Adherens junction
- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- Focal adhesion
- Leukocyte transendothelial migration
- Regulation of actin cytoskeleton
- Systemic lupus erythematosus
- Tight junction

Disease

- Alport syndrome
- Cardiovascular Diseases
- Diabetes Mellitus
- Diabetic Nephropathies
- Edema
- Genetic Predisposition to Disease
- Glomerulosclerosis
- Kidney Diseases
- Proteinuria

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