

Rabbit Anillin Polyclonal Antibody | anti-ANLN antibody

Anillin Antibody

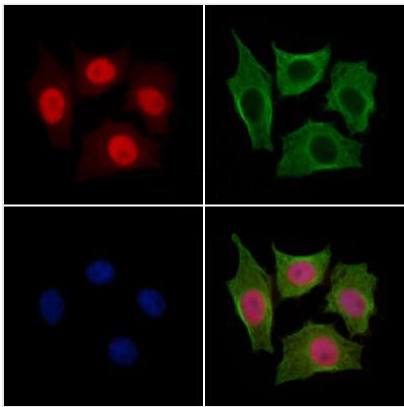
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31240	Rabbit	Human, Mouse, RatPredicted Reactivity: Pig(100%), Bovine(100%), Horse(88%), Sheep(100%), Dog(100%)	ELISA

PRODUCT SYNONYMS

Anillin; Polyclonal Antibody; Anillin Antibody; Actin binding protein scraps homolog Drosophila; Actin binding protein anillin; Actin-binding protein anillin; Anillin actin binding protein; anln; ANLN_HUMAN; DKFZp779A055; FSGS8; Scra; Scraps; Scraps homolog; anti-ANLN antibody

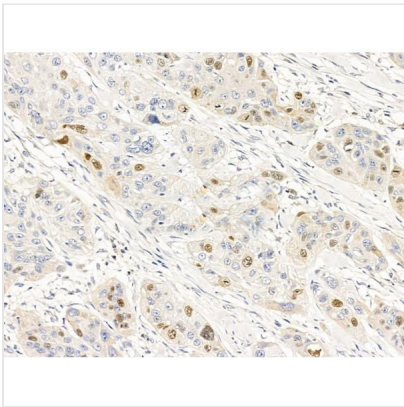
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(88%), Sheep(100%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Anillin Antibody detects endogenous levels of total Anillin.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	1086
Applicable Applications for anti-ANLN antibody	ELISA
Application Notes	WB: 1:500-1:2000 IF: 1:100-1:500 ICC: 1:100-1:500 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human Anillin, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



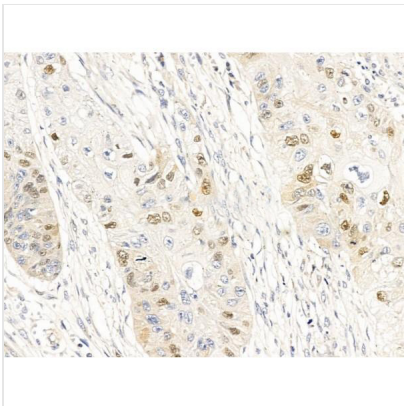
IF (Immunofluorescence)

AAA31240 staining HepG2 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA31240) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



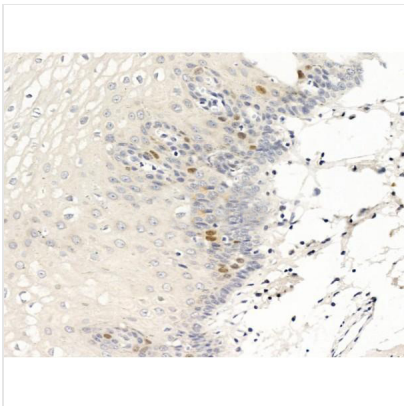
IHC (Immunohistochemistry-Paraffin)

AAA31240 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



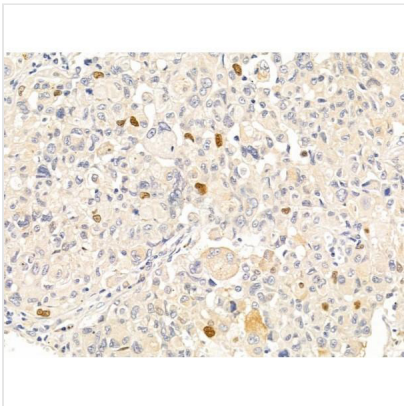
IHC (Immunohistochemistry-Paraffin)

AAA31240 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



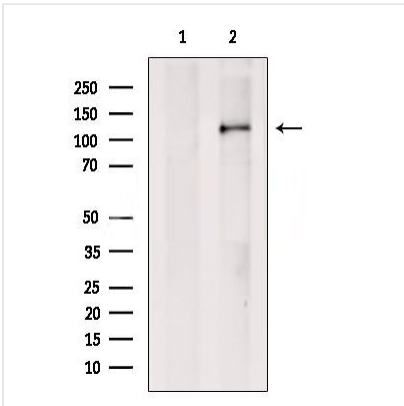
IHC (Immunohistochemistry-Paraffin)

AAA31240 at 1/100 staining Mouse stomach tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31240 at 1/100 staining Rat stomach tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from C6 cells, using Anillin Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ANLN antibody	Function: Required for cytokinesis (PubMed:16040610). Essential for the structural integrity of the cleavage furrow and for completion of cleavage furrow ingression. Plays a role in bleb assembly during metaphase and anaphase of mitosis (PubMed:23870127). May play a significant role in podocyte cell migration (PubMed:24676636). Post Translational Modifications: Phosphorylated during mitosis. Ubiquitinated, and this requires FZR1/CDH1. Subcellular Location: Nucleus. Cytoplasm>Cytoskeleton. Cytoplasm>Cell cortex. Cell projection>Bleb. Note: Mainly found in the nucleus during interphase. Colocalizes with cortical F-actin upon nuclear envelope breakdown in mitosis and subsequently concentrates in the area of the prospective contractile ring in anaphase. This pattern persists until telophase, when the protein becomes concentrated in the midbody. Tissue Specificity: Ubiquitously expressed. Present at highest levels in the brain, at high levels in the placenta and testis, at intermediate levels in the intestine, ovary, skeletal muscle and thymus and at lower levels in heart, kidney, liver, lung, pancreas, prostate and spleen. In the kidney, it is widely expressed in tubules, but sparsely expressed in the glomerulus (PubMed:24676636). Expression is significantly increased in renal biopsy specimens from idiopathic FSGS (PubMed:24676636). Overexpressed in many tumor types including breast, colorectal, endometrial, hepatic, kidney, lung, ovarian and pancreatic tumors. Subunit Structure: Interacts with F-actin (PubMed:10931866). Interacts with CD2AP (PubMed:15800069). May interact with RHOA (PubMed:16357138). Interacts with FZR1/CDH1 during mitotic exit (PubMed:16040610).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	546231404
NCBI GeneID	54443
NCBI Accession #	NP_001271231.1
NCBI GenBank Nucleotide #	NP_001271231.1
UniProt Accession #	Q9NQW6
Molecular Weight	Observed Molecular Weight: (Observed)124kD. Predicted Molecular Weight: (Calculated)124kDa.
NCBI Official Full Name	anillin isoform 3
NCBI Official Synonym Full Names	anillin actin binding protein
NCBI Official Symbol	ANLN
NCBI Official Synonym Symbols	scra; FSGS8; Scraps
NCBI Protein Information	anillin
UniProt Protein Name	Actin-binding protein anillin
UniProt Gene Name	ANLN
UniProt Entry Name	ANLN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.