

**YES1 / c-Yes Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS13231****Specification**

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**YES1 / c-Yes Antibody - Product Information**

Application	IF, WB, IHC
Primary Accession	<a href="#">P07947</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61kDa KDa

**YES1 / c-Yes Antibody - Additional Information****Gene ID** 7525**Other Names**

Tyrosine-protein kinase Yes, 2.7.10.2, Proto-oncogene c-Yes, p61-Yes, YES1, YES

**Target/Specificity**

Human and mouse c-Yes. Predicted cross-reactivity based on amino acid sequence homology: rat (88%), bovine (89%), dogs (98%), zebrafish (95%).

**Reconstitution & Storage**

Aliquot and store at -20°C. Minimize freezing and thawing.

**Precautions**

YES1 / c-Yes Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**YES1 / c-Yes Antibody - Protein Information****Name** YES1**Synonyms** YES**Function**

Non-receptor protein tyrosine kinase that is involved in the regulation of cell growth and survival, apoptosis, cell-cell adhesion, cytoskeleton remodeling, and differentiation. Stimulation by receptor tyrosine kinases (RTKs) including EGFR, PDGFR, CSF1R and FGFR leads to recruitment of YES1 to the phosphorylated receptor, and activation and phosphorylation of downstream substrates. Upon EGFR activation, promotes the phosphorylation of PARD3 to favor epithelial tight junction assembly. Participates in the phosphorylation of specific junctional components such as CTNND1 by stimulating the FYN and FER tyrosine kinases at cell-cell contacts. Upon T-cell stimulation by CXCL12, phosphorylates collapsin response mediator protein 2/DPYSL2 and induces T-cell migration. Participates in CD95L/FASLG signaling pathway and mediates AKT-mediated cell migration. Plays a role in cell cycle progression by phosphorylating the cyclin-dependent kinase

4/CDK4 thus regulating the G1 phase. Also involved in G2/M progression and cytokinesis. Catalyzes phosphorylation of organic cation transporter OCT2 which induces its transport activity (PubMed:<a href="http://www.uniprot.org/citations/26979622" target="\_blank">26979622</a>).

#### Cellular Location

Cell membrane. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytosol Note=Newly synthesized protein initially accumulates in the Golgi region and traffics to the plasma membrane through the exocytic pathway

#### Tissue Location

Expressed in the epithelial cells of renal proximal tubules and stomach as well as hematopoietic cells in the bone marrow and spleen in the fetal tissues. In adult, expressed in epithelial cells of the renal proximal tubules and present in keratinocytes in the basal epidermal layer of epidermis.

#### Volume

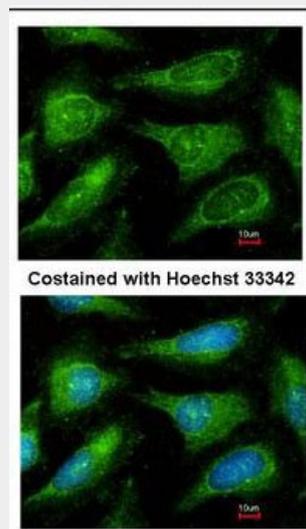
50 µl

### YES1 / c-Yes Antibody - Protocols

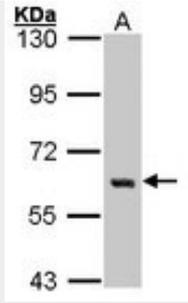
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

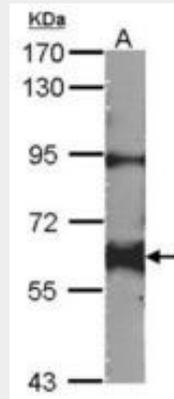
### YES1 / c-Yes Antibody - Images



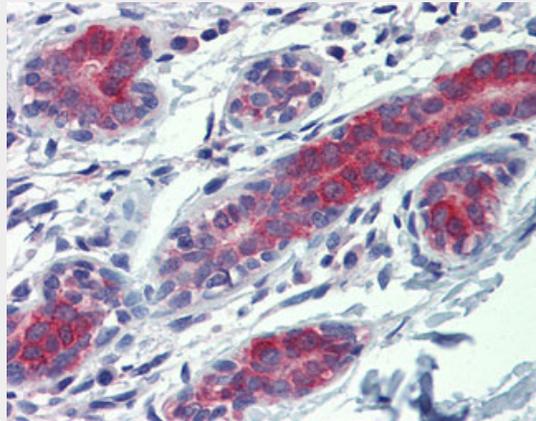
Immunofluorescence of methanol-fixed HeLa, using c-Yes antibody at 1:200 dilution.



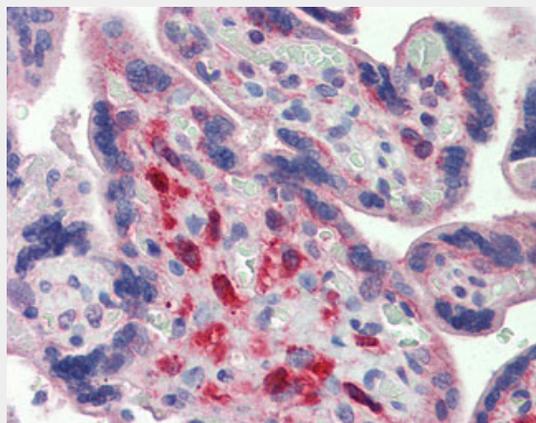
Sample (30 ug of whole cell lysate). A: A431. 7.5% SDS PAGE. YES1 antibody diluted at 1:1000.



Sample (30 ug of whole cell lysate). A: NIH-3T3. 7.5% SDS PAGE. YES1 antibody diluted at 1:1000.



Anti-YES1 antibody IHC of human breast.



Anti-YES1 antibody IHC of human placenta.

### **YES1 / c-Yes Antibody - Background**

Non-receptor protein tyrosine kinase that is involved in the regulation of cell growth and survival, apoptosis, cell-cell adhesion, cytoskeleton remodeling, and differentiation. Stimulation by receptor tyrosine kinases (RTKs) including EGRF, PDGFR, CSF1R and FGFR leads to recruitment of YES1 to the phosphorylated receptor, and activation and phosphorylation of downstream substrates. Upon EGFR activation, promotes the phosphorylation of PARD3 to favor epithelial tight junction assembly. Participates in the phosphorylation of specific junctional components such as CTNND1 by stimulating the FYN and FER tyrosine kinases at cell-cell contacts. Upon T-cell stimulation by CXCL12, phosphorylates collapsin response mediator protein 2/DPYSL2 and induces T-cell migration. Participates in CD95L/FASLG signaling pathway and mediates AKT-mediated cell migration. Plays a role in cell cycle progression by phosphorylating the cyclin-dependent kinase 4/CDK4 thus regulating the G1 phase. Also involved in G2/M progression and cytokinesis.

### **YES1 / c-Yes Antibody - References**

- Sukegawa J., et al. Mol. Cell. Biol. 7:41-47(1987).
- Nusbaum C., et al. Nature 437:551-555(2005).
- Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
- Sugawara K., et al. Br. J. Cancer 63:508-513(1991).
- Krueger J., et al. Oncogene 6:933-940(1991).