10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-YES1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1494

Specification

KD-Validated Anti-YES1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P07947
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 61 kD a , observed, 61 kDa KDa**
Gene Name	**YES1**
Aliases	**YES1; YES Proto-Oncogene 1, Src Family Tyrosine Kinase; V-Yes-1 Yamaguchi Sarcoma Viral Oncogene Homolog 1; Tyrosine-Protein Kinase Yes; Proto-Oncogene C-Yes; EC 2.7.10.2 4; HsT441; C-Yes; Yes; YES; YES1 Proto-Oncogene, Src Family Tyrosine Kinase; Proto-Oncogene Tyrosine-Protein Kinase YES; Yamaguchi Sarcoma Oncogene; Cellular Yes-1 Protein; EC 2.7.10; P61-YES; P61-Yes; HST441; C-YES**
Immunogen	**A synthesized peptide derived from human Yes1**

KD-Validated Anti-YES1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**7525**

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

KD-Validated Anti-YES1 Rabbit Monoclonal 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:26979622).

Cellular Location
Cell membrane. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytosol. Cell junction {ECO:0000250|UniProtKB:Q28923}. Note=Newly synthesized protein initially accumulates in the Golgi region and traffics to the plasma membrane through the exocytic pathway. Localized to small puncta throughout the cytoplasm and cell membrane when in the presence of SNAIL1 (By similarity). {ECO:0000250|UniProtKB:Q28923}

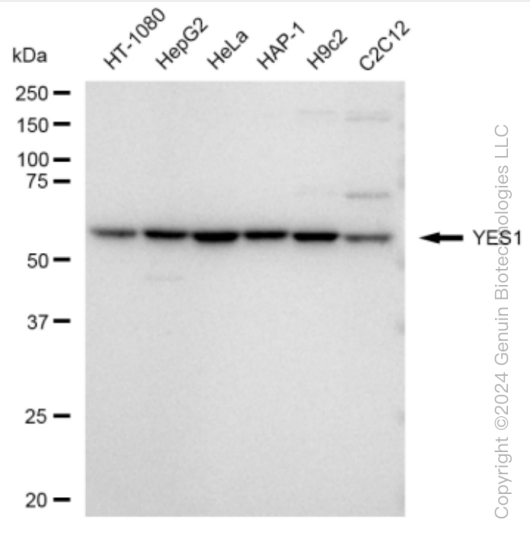
Tissue Location
Expressed in the epithelial cells of renal proximal tubules and stomach as well as hematopoietic cells in the bone marrow and spleen in the fetal tissues. In adult, expressed in epithelial cells of the renal proximal tubules and present in keratinocytes in the basal epidermal layer of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

KD-Validated Anti-YES1 Rabbit Monoclonal Antibody - Protocols

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

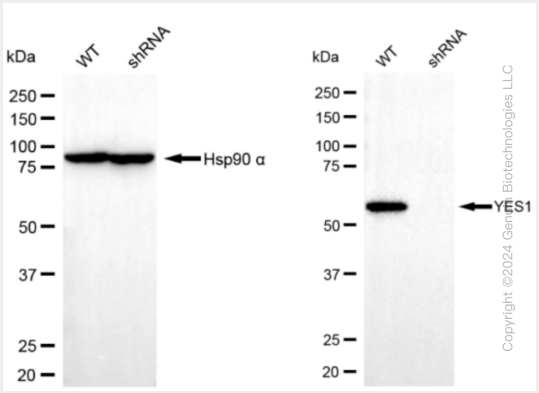
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-YES1 Rabbit Monoclonal Antibody - Images

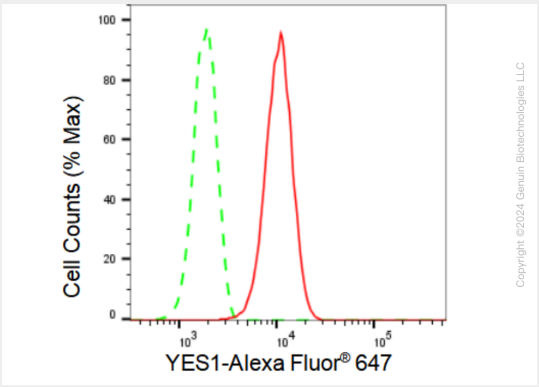


Western blotting analysis using anti-YES1 antibody (Cat#AGI1494). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-YES1 antibody (Cat#AGI1494, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

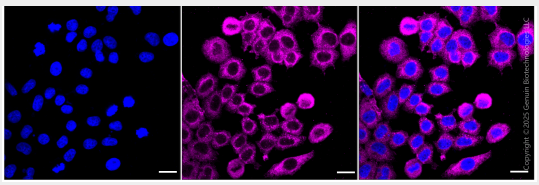
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Western blotting analysis using anti-YES1 antibody (Cat#AGI1494). YES1 expression in wild type (WT) and YES1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-YES1 antibody (Cat#AGI1494, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of YES1 expression in HepG2 cells using YES1 antibody (Cat#AGI1494, 1:2,000). Green, isotype control; red, YES1.



Immunocytochemical staining of HepG2 cells with anti-YES1 antibody (Cat #AGI1494, 1:1,000). Nuclei were stained blue with DAPI; YES1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.