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Rabbit Anti-phospho-YES1 (Tyr537) antibody

SL5592R

Product Name:	phospho-YES1 (Tyr537)
Chinese Name:	磷酸化原癌基因酪氨酸蛋白激酶Yes1抗体
Alias:	YES1(phospho Y537); YES1(phospho Tyr537); c Yes; c-Yes; Cellular Yes 1 protein; Cellular Yes1 protein; HsT441; P61 YES; p61-Yes; Proto oncogene tyrosine protein kinase YES; Proto-oncogene c-Yes; Proto-oncogene tyrosine-protein kinase Yes; v yes 1 Yamaguchi sarcoma viral oncogene homolog 1; Viral oncogene yes 1 homolog 1; Viral oncogene yes1 homolog 1; Yamaguchi sarcoma oncogene; Yes 1; Yes; YES_HUMAN; YES1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	60kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human YES1 around the phosphorylation site of Tyr537:PQ(p-Y)QP
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

Product Detail:	This gene is the cellular homolog of the Yamaguchi sarcoma virus oncogene. The encoded protein has tyrosine kinase activity and belongs to the src family of proteins. This gene lies in close proximity to thymidylate synthase gene on chromosome 18, and a corresponding pseudogene has been found on chromosome 22. [provided by RefSeq]. **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 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. **Subunit:** Interacts with YAP1 and CSF1R. Interacts with CTNND1; this interaction allows YES1-mediated activation of FYN and FER and subsequent phosphorylation of CTNND1. Interacts with FASLG. **Subcellular Location:** Cell membrane. Cytoplasm, cytoskeleton, centrosome. Cytoplasm, cytosol. Note=Newly synthesized protein initially accumulates in the Golgi region and traffics to the plasma membrane through the exocytic pathway. **Tissue Specificity:** 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. **Post-translational modifications:** Phosphorylation by CSK on the C-terminal tail maintains the enzyme in an inactive state. Autophosphorylation at Tyr-426 maintains enzyme activity by blocking CSK-mediated inhibition. Palmitoylation at Cys-3 promotes membrane localization . **Similarity:** Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily. Contains 1 protein kinase domain. Contains 1 SH2 domain.

	Contains 1 SH3 domain. **SWISS:** P07947 **Gene ID:** 7525 **Database links:** Entrez Gene: 7525 Human Entrez Gene: 22612 Mouse Entrez Gene: 24884 Rat Omim: 164880 Human SwissProt: P07947 Human SwissProt: Q04736 Mouse Unigene: 194148 Human Unigene: 4558 Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.