Revision 1

Store at -20C

#65890

Yes (D9P3E) Rabbit mAb

Cell Signaling TECHNOLOGY®

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	60	Rabbit IgG	#P07947	7525

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Yes (D9P3E) Rabbit mAb recognizes endogenous levels of total Yes protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Yes protein.

Background

The cellular oncogene c-Yes and its viral homologue v-Yes (the transforming gene of Yamaguchi 73 and Esh avian sarcoma viruses) encode a 60 kDa, cytoplasmic, membrane-associated, protein-tyrosine kinase (1). Yes belongs to the Src kinase family and is ubiquitously expressed in many tissues and cells. Like other Src family members, Yes contains several conserved functional domains such as an N-terminal myristoylation sequence for membrane targeting, SH2 and SH3 domains, a kinase domain, and a C-terminal non-catalytic domain (2). Although several lines of evidence support redundancy in signaling between Yes and other Src family kinases, there is also a growing body of evidence indicating specificity in Yes signaling (2). Yes is activated downstream of a multitude of cell surface receptors, including receptor tyrosine kinases, G protein-coupled receptors, and cytokine receptors (3). In addition, both Yes and Src kinases are activated during the cell cycle transition from G2 to M phase (3). Investigators have found that dysfunction of Yes is associated with the development of various cancers (4).

Background References

1. Pena, S.V. et al. (1995) *Gastroenterology* 108, 117-24.
2. Summy, J.M. et al. (2003) *Front Biosci* 8, s185-205.
3. Summy, J.M. et al. (2003) *J Cell Sci* 116, 2585-98.
4. Rungsipipat, A. et al. (1999) *Res Vet Sci* 66, 205-10.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

Trademarks and Patents

Limited Uses

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