Revision 1

Store at -20C

#3201

Yes Antibody

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:
W, IP	H Mk B	Endogenous	60	Rabbit

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50

Storage

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

Specificity/Sensitivity

Yes Antibody detects endogenous levels of total Yes protein. This antibody does not cross-react with Src.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Yes protein. Antibodies are purified by protein A and peptide affinity chromatography.

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 **Mk:** Monkey **B:** Bovine

Trademarks and Patents

Limited Uses

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