

Mouse anti-phospho-p27 (Thr187)

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Catalog Number: 379700

Store at 2 to 8°C (short-term), or -20°C (long-term)

Clonality: Monoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Mouse IgG₁K
Reactivity: Human

Product Description

The cyclin-dependent kinase inhibitor p27^{KIP1} is a potent inhibitor of both Cyclin E-Cdk2 and Cyclin A-Cdk2, two cdk complexes involved in the regulation of G1/S transition. p27 is phosphorylated on threonine 187 by cyclin E/Cdk2, and overexpression of this complex in mammalian cells induces degradation of transfected p27. The Cdk-mediated phosphorylation of p27 on threonine 187 is required for p27 ubiquitination and consequent degradation. The phosphorylation on threonine 187 and the ubiquitination of cellular p27, as well as p27 ubiquitinating activity, were found to be regulated collectively during the cell cycle, being present in proliferating cells but not in G0- and G1- arrested cells. This antibody is specific for p27 when phosphorylated at Thr187. It does not react with unphosphorylated p27. Specificity has been confirmed with Thr187-mutant p27 recombinant protein. During development reactivity was confirmed with p27-transfected 293 cells. Based on sequence homology, this antibody may also react with mouse, rat and hamster.

Product Specifications

Immunogen: Synthetic peptide encompassing the phosphorylated Thr187 residue of human p27
Apparent MW: ~27 kDa
Clone/PAD: 2B10B7
Lot: See product label

Product Applications

Application	Species	Concentration
ELISA	Immunogen	0.1–1 µg/mL
Western Blotting	Human and immunogen	1–3 µg/mL

Storage and Handling

Store at 2 to 8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

Storage Buffer

Phosphate buffered saline (PBS), pH 7.4, containing 0.1% sodium azide.

Caution: Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at www.lifetechnologies.com/support.








Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to www.lifetechnologies.com/support and search for the Certificate of Analysis by product lot number, which is printed on the box.

For research use only. Not for use in diagnostic procedures.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

Limited Use Label License: Research Use Only

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