

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human p27/Kip1 in direct ELISAs. Specificity was demonstrated by comparing staining on tissue sections of normal versus p27/Kip1 knockout mice.
Source	Monoclonal Rat IgG _{2A} Clone # 341116
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human p27/Kip1 Met1-Thr198 Accession # P46527
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

The cyclin-dependent kinase (cdk) inhibitor p27/Kip1 is a tumor suppressor protein that acts in the nucleus to enforce cell cycle checkpoints. p27/Kip1 binds to and inhibits many cyclin/cdk complexes, including cyclin D/cdk4, cyclin E/cdk2, and cyclin A/cdk2. This inhibition can subsequently block progression through different phases of the cell cycle. Human p27/Kip1 shares 88% and 87% amino acid sequence identity with mouse and rat p27/Kip1, respectively, while mouse and rat p27/Kip1 share 96% amino acid sequence identity.

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