DATA SHEET

p21^{WAF1} Ab-11 (Clone CP74)

Mouse Monoclonal Antibody

Cat. #11403, 11404, or 11402 (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)
Cat. #11405 or 11406 (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #11400, 11401, or 11399 (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Biotin-labeled Ab with BSA and Azide)

Description: p21^{WAF1}/*Cip1*/Sdi1/Pic1 is a tumor suppressor protein. Expression of p21^{WAF1} is induced by wild type, but not mutant, p53 suppressor protein. The p21^{WAF1} protein binds to cyclin/CDK complexes and inhibits their kinase activity thereby stopping cell cycle progression. It also binds to PCNA (proliferating cell nuclear antigen) and blocks DNA replication but not the DNA repair process.

Mol. Wt. of Antigen: 21kDa

Epitope: aa 1-80

Species Reactivity: Human and Rat. Others-not known.

Clone Designation: CP74

Ig Isotype: IgG_{2b}

Immunogen: Full length human recombinant p21 protein

Applications and Suggested Dilutions:

- Flow Cytometry
- Immunofluorescence
- Immunoprecipitation (Native verified)
  (Use Protein A) (Ab 2µg/mg protein lysate)
  (Co-precipitates cdk4)
- Western Blotting (Ab 1-2µg/ml for 2hrs at RT)

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Raji, PC12 cells

Cellular Localization: Nuclear

Supplied As:

200µg/ml antibody purified from the ascites fluid by Protein A chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA or azide, or at 1mg/ml.

Storage and Stability:

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

dianova GmbH
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Suggested References:

1. Buckley M.F., et al. Oncogene. 8: 2127-2133, 1993.
2. Chen Y. Q., et al. Int. J. Oncology, 889-893, 1995a.
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Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. Dianova makes no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

For Research Use Only

Additional Suggested references:

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