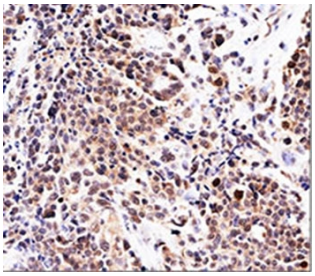
p21 Antibody [clone WA-1] (V2085)

Catalog No.	Formulation	Size
V2085-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2085-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2085SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2085IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

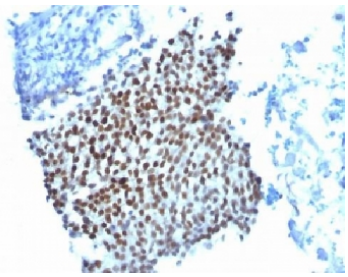
Citations (7)

Bulk quote request

Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	WA-1
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	1026
Localization	Nuclear
Applications	Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This **p21 antibody** is available for research use only.



IHC testing of FFPE urinary transitional cell carcinoma with p21 antibody (clone WA-1). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes.



IHC testing of FFPE bladder cancer tissue with p21 antibody (clone WA-1). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes.

Description

p21 antibody clone WA-1 is a monoclonal antibody specific for p21, a cyclin-dependent kinase inhibitor that regulates cell cycle progression at the G1 checkpoint. By binding to cyclin-CDK complexes, p21 halts cell cycle advancement, providing a mechanism for DNA repair and cellular stress responses. NSJ Bioreagents offers this antibody as a key reagent for cancer biology, cell cycle research, and molecular pathology.

The antibody produces strong nuclear staining in cells undergoing growth arrest. In oncology, p21 detection is widely applied to study tumor suppressor pathways. Because p21 expression is regulated by p53, this antibody is often used to explore p53-dependent cell cycle arrest and tumor suppression mechanisms.

In molecular biology, p21 antibody clone WA-1 supports investigations into senescence and DNA damage responses. By labeling cells undergoing stress-induced arrest, the antibody provides insight into pathways that maintain genomic stability.

The antibody has also been applied in therapeutic research, where p21 modulation is studied as a potential target for enhancing cancer treatment. Validated across tissue-based and cell-based assays, the antibody delivers consistent nuclear staining. Alternate names include CDKN1A antibody, cyclin-dependent kinase inhibitor 1 antibody, and WAF1 antibody.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the p21 antibody to be titered up or down for optimal performance.

1. Staining of formalin-fixed tissues requires
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Human recombinant protein was used as the immunogen for this p21 antibody.

Storage

Store the p21 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (2)