

## p27 Antibody [clone DCS-72.F6] (V2437)

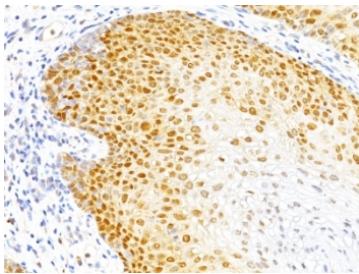
Catalog No.	Formulation	Size
V2437-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2437-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2437SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2437IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml



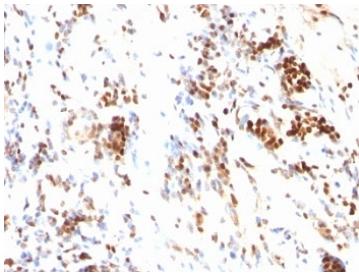
Citations (6)

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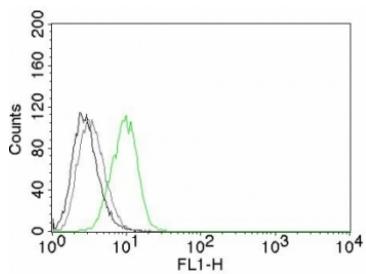
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	DCS-72.F6
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P46527
<b>Localization</b>	Nuclear
<b>Applications</b>	Flow Cytometry : 0.5-1ug/10 <sup>6</sup> cells Immunofluorescence : 0.5-1ug/ml Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.25-0.5ug/ml for 30 min at RT
<b>Limitations</b>	This p27 antibody is available for research use only.



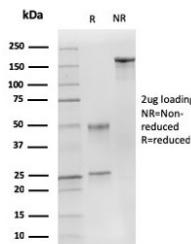
IHC: Formalin-fixed, paraffin-embedded human cervical cancer stained with p27 antibody (DCS-72.F6)



IHC: Formalin-fixed, paraffin-embedded human colon carcinoma stained with p27 antibody (DCS-72.F6)



Flow cytometry testing of HeLa cells. Black: cells alone; Grey: isotype control; Green: AF488-labeled p27 antibody (DCS-72.F6).



SDS-PAGE analysis of purified, BSA-free p27 antibody (clone DCS-72.F6) as confirmation of integrity and purity.

## Description

Recognizes a 27kDa protein, identified as the p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors. p27Kip1 functions as a negative regulator of G1 progression and has been proposed to function as a possible mediator of TGF- induced G1 arrest. p27Kip1 is a candidate tumor suppressor gene. This mAb co-precipitates cdk4 in complex p27Kip1 and is excellent for staining of formalin-fixed tissues.

## Application Notes

Optimal dilution of the p27 antibody to be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min
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

Mouse recombinant protein was used as the immunogen for the p27 antibody. The epitope has been localized to amino acids 83-204.

## Storage

Store the p27 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).