Recombinant p21WAF1 (Tumor Suppressor Protein) Antibody

Rabbit Monoclonal Antibody [Clone CIP1/4377R]

Catalog No	Format	Size
1026-RBM10-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1026-RBM10-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1026-RBM10-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

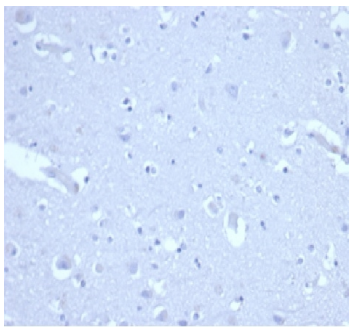
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

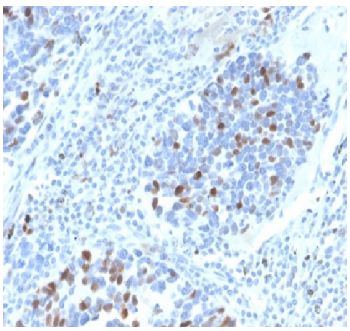
Clone	CIP1/4377R
Gene Name	CDKN1A
Immunogen	Synthetic peptide corresponding to p21 residues within aa1-100 of p21 was used as an immunogen
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	21kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	Colon,HepG2, HeLa cells. Human Kidney, Human skin, or breast carcinoma.

**Optimal dilution for a specific application should be determined.*

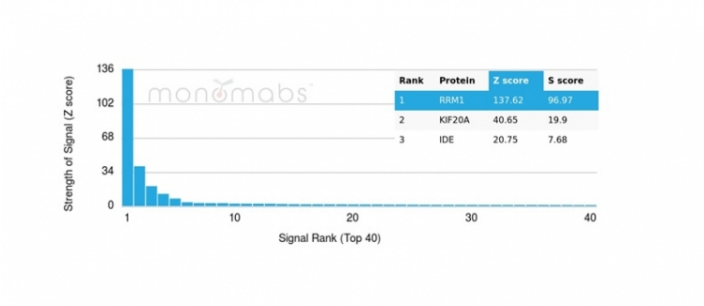
Product Images for Recombinant p21WAF1 (Tumor Suppressor Protein) Antibody



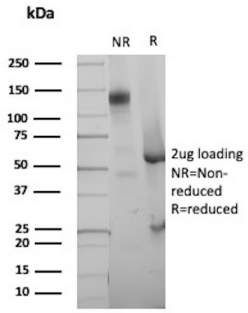
IHC analysis of formalin-fixed, paraffin-embedded human brain. Negative tissue control using CIP1/4377R at 2ug/ml in PBS for 30min RT. HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



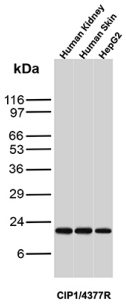
Formalin fixed paraffin embedded human lung carcinoma stained with p21 Rabbit Recombinant Monoclonal Antibody (CIP1/4377R).



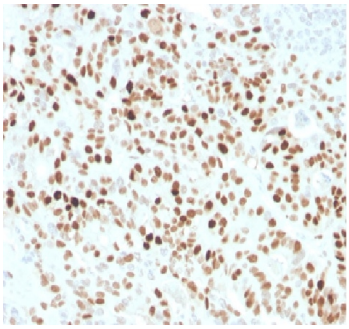
Analysis of Protein Array containing more than 19,000 full-length human proteinsusing p21-Monospecific Rabbit Recombinant Monoclonal Antibody (CIP1/4377R). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE Analysis of Purified p21 Recombinant Rabbit MonoclonalAntibody (CIP1/4377R).Confirmation of Purity and Integrity of Antibody.



Western blot analysis of Human Kidney, Human Skin and HepG2 lysates using WAF1 Recombinant Rabbit Monoclonal Antibody (CIP1/4377R).



Formalin fixed paraffin embedded human colon carcinoma stained with p21 Rabbit Recombinant Monoclonal Antibody (CIP1/4377R).

Specificity & Comments

This MAb recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This MAb is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors. p21WAF1 is a specific inhibitor of cdk s and a tumor suppressor involved in the pathogenesis of a variety of malignancies. The expression of this gene acts as an inhibitor of the cell cycle during G1 phase and is tightly controlled by the tumor suppressor protein p53. Its expression is induced by the wild type, but not mutant, p53 suppressor protein. Normal cells generally display a rather intense nuclear p21 expression. Loss of p21 expression has been reported in many carcinomas (gastric carcinoma, non-small cell lung carcinoma, thyroid carcinoma).

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

AKT Signaling, Bladder Cancer, Breast Cancer, Cardiovascular, Colon Cancer, Cytokine Signaling, Developmental Biology, Immunology, Infectious Disease, Lung Cancer, Nuclear Marker, Ovarian Cancer, Signal Transduction, Transcription Factors

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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