

Cell Division Cycle 34 homolog Antibody

Mouse Monoclonal Antibody [Clone CPTC-CDC34-2]

Catalog No	Format	Size
997-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
997-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
997-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

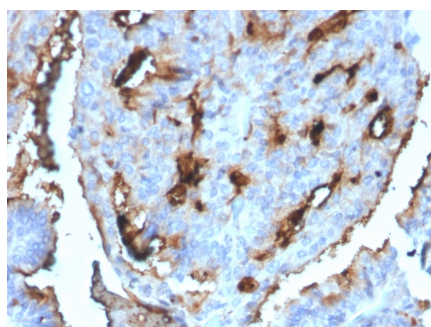
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

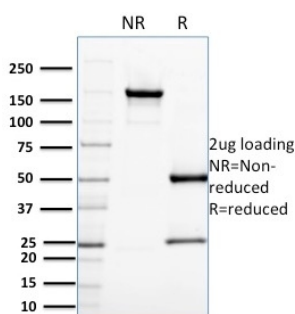
Clone	CPTC-CDC34-2
Gene Name	CDC34
Immunogen	Recombinant human full-length CDC34 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	34kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	Jurkat cell lysates. Human small intestine., K562, A-549 and HEK293

*Optimal dilution for a specific application should be determined.

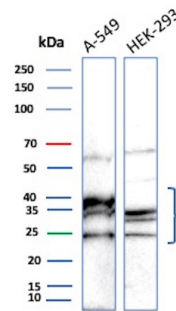
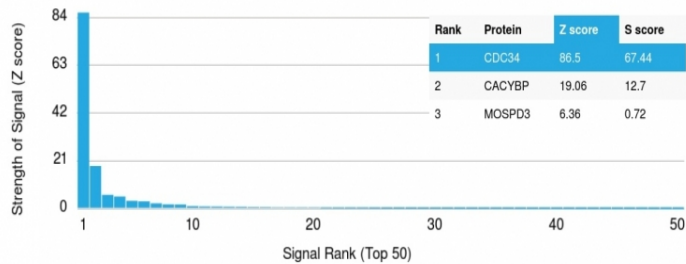
Product Images for Cell Division Cycle 34 homolog Antibody



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with CDC34 Mouse Monoclonal Antibody (CPTC-CDC34-2).

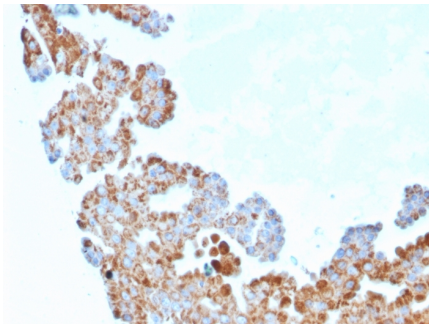


SDS-PAGE Analysis of Purified CDC34 Mouse Monoclonal Antibody (CPTC-CDC34-2). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteins using Cell Division Cycle 34 homolog Mouse Monoclonal Antibody (CPTC-CDC34-2). 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 HuProt™ 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 HuProt™ 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 be 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.

Western blot analysis of A-549 and HEK293T lysates using CDC34 Mouse Monoclonal Antibody (CPTC-CDC34-2).



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with CDC34 Mouse Monoclonal Antibody (CPTC-CDC34-2).

Specificity & Comments

Cell cycle events are regulated by the sequential activation and deactivation of cyclin dependent kinases (Cdks) and by the proteolysis of cyclins. The cell division cycle (Cdc) genes are required at various points in the cell cycle. Cdc25A, Cdc25B and Cdc25C protein tyrosine phosphatases function as mitotic activators by dephosphorylating Cdc2 p34 on regulatory tyrosine residues. Cdc6 is the human homolog of *Saccharomyces cerevisiae* Cdc6, which is involved in the initiation of DNA replication. Cdc37 appears to facilitate Cdk4/cyclin D1 complex formation and has been shown to form a stable complex with HSP 90. Cdc34, Cdc27 and Cdc16 function as ubiquitinconjugating enzymes. Cdc34 is thought to be the structural and functional homolog of *Saccharomyces cerevisiae* Cdc34, which is essential for the G1 to S phase transition. Cdc16 and Cdc27 are components of the APC (anaphasepromoting complex) which ubiquitinates cyclin B, resulting in cyclin B/Cdk complex degradation.

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.

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

Immunology, Nuclear Marker