

Mouse Cell Division Cycle 34 homolog Monoclonal Antibody | anti-CDC34 antibody

Cell Division Cycle 34 homolog

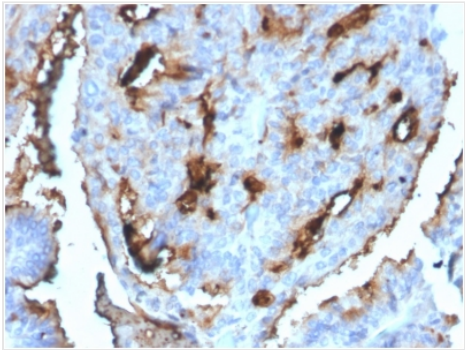
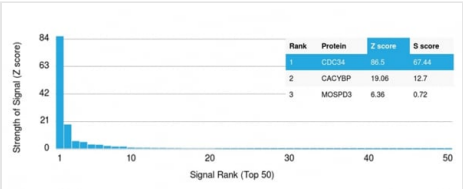
CATALOG # AAA214861	HOST Mouse	REACTIVITY Human. Others not tested.	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

Cell Division Cycle 34 homolog; Monoclonal Antibody; Cdc34; cell division cycle 34; UBC3; UBCH3; UBE2R1; Ubiquitin carrier protein; Ubiquitin conjugating enzyme E2 32 kDa complementing; Ubiquitin protein ligase R1; Ubiquitin conjugating enzyme E2-CDC34; anti-CDC34 antibody

PRODUCT SPECIFICATIONS

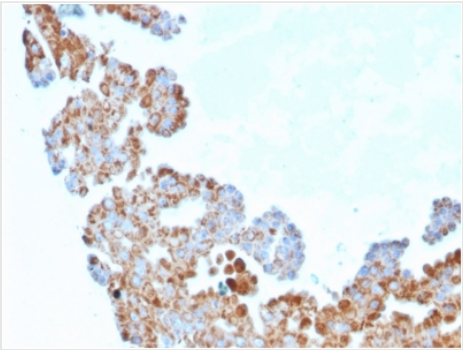
Host	Mouse
Reactivity	Human. Others not tested.
Clonality	Monoclonal
Isotype	IgG1
Clone Number	CPTC-CDC34-2
Specificity	Cell cycle events are regulated by the sequential activation and deactivation of cyclin dependent kinases (Cdks) and by the proteolysis of cyclins. The cell division cycle (Cdc) genes 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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	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.
Sequence Length	236
Applicable Applications for anti-CDC34 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant human full-length CDC34protein
Positive Control	293, K562, Jurkat cell lysates. Human small intestine.
Cellular Localization	Nucleus. Cytoplasm.
Chromosome Location	19p13.3
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



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

Application Data

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 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 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.



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

ADDITIONAL INFORMATION

References	Zhai, Y., et al. 1999. VEGI, a novel cytokine of the tumor necrosis factor family, is an angiogenesis inhibitor that suppresses the growth of colon carcinomas in vivo. FASEB J. 13: 181-189.; Zhai, Y., et al. 1999. Inhibition of angiogenesis and breast cancer xenograft tumor growth by VEGI, a novel cytokine of the TNF superfamily. Int. J. Cancer 82: 131-136. 5.; Parr C, Gan CH, Watkins G, Jiang WG. Reduced vascular endothelial growth inhibitor (VEGI) expression is associated with poor prognosis in breast cancer patients. Angiogenesis. 2006; 9(2):73-81.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16357477
NCBI GeneID	997
NCBI Accession #	NP_004350.1
NCBI GenBank Nucleotide #	NM_004359.1
UniProt Accession #	P49427; A8K689
Molecular Weight	34kDa
NCBI Official Full Name	ubiquitin-conjugating enzyme E2 R1
NCBI Official Synonym Full Names	cell division cycle 34
NCBI Official Symbol	CDC34

NCBI Official Synonym Symbols	UBC3; UBCH3; UBE2R1; E2-CDC34
NCBI Protein Information	ubiquitin-conjugating enzyme E2 R1
UniProt Protein Name	Ubiquitin-conjugating enzyme E2 R1
UniProt Gene Name	CDC34
UniProt Synonym Gene Names	UBCH3; UBE2R1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/cell-division-cycle-34-homolog-antibody-clone-cptc-cdc34-2-immunohistochemistry-elisa/214861>