DCP2 (Decapping mRNA 2) Antibody

Mouse Monoclonal Antibody [Clone PCRP-DCP2-1D6]

Catalog No	Format	Size
167227-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
167227-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
167227-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

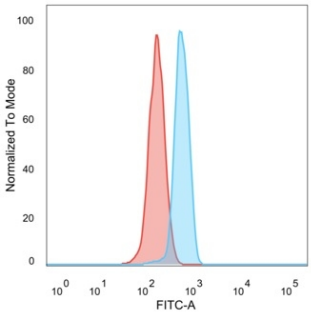
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

Product Details

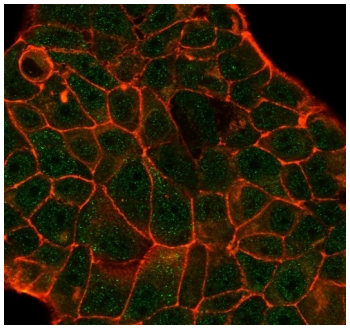
Clone	PCRP-DCP2-1D6
Gene Name	DCP2
Immunogen	Recombinant full-length human DCP2protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a
Mol. Weight of Antigen	48.4kDa
Cellular Localization	Cytoplasm, Nucleus, P-body
Species Reactivity	Human
Positive Control	Daudi or Jurkatcells., MCF7

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

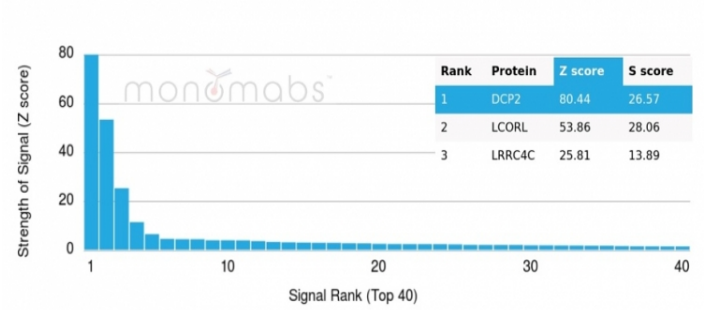
Product Images for DCP2 (Decapping mRNA 2) Antibody



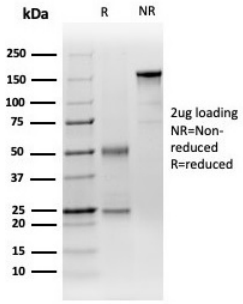
Flow cytometric analysis of PFA-fixed HeLa cells. DCP2 Mouse Monoclonal Antibody (PCRP-DCP2-1D6) followed by goat anti-mouse IgG-CF488 (blue), unstained cells (red).



Immunofluorescent staining of PFA-fixed human cell line MCF7. DCP2 Mouse Monoclonal Antibody (PCRP-DCP2-1D6) followed by goat anti-mouse IgG-CF488 (green); phalloidin (red).



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing DCP2 Mouse Monoclonal Antibody (PCRP-DCP2-1D6). 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 DCP2 Mouse Monoclonal Antibody (PCRP-DCP2-1D6). Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

The major pathway of eukaryotic mRNA decay involves deadenylation-dependent decapping followed by 5' to 3'exonucleolytic degradation. Human decapping enzyme 2 (hDcp2) is an mRNA decapping enzyme which contains intrinsic decapping activity. In nonsense-mediated decay, the human decapping complex, made up of hDcp1 and hDcp2, may be recruited to mRNAs containing premature termination codons by nonsense-mediated decay factor (Upf) proteins. The decapping activator complex (Lsm1p-7p) is also involved in the recruitment of the decapping complex, indicated by data showing that Lsm1p-7p enhances the co-immunoprecipitation of the complex with mRNA. Dcp2 specifically hydrolyzes methylated capped RNA to release m7GDP, thereby aiding in mRNA degradation. Both Dcp1 and Dcp2 co-localize in the cytoplasm, which is consistent with their role in mRNA decay

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% 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.

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.