

beta Amyloid Antibody

Mouse Monoclonal Antibody [Clone APP/3345]

Catalog No	Format	Size
351-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
351-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
351-MSM5-P1ABX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug

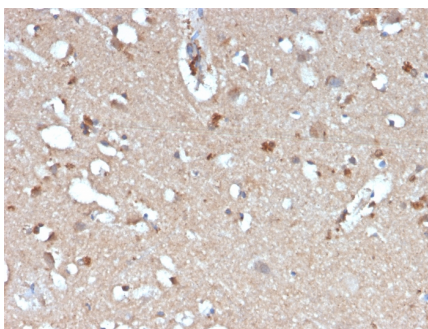
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

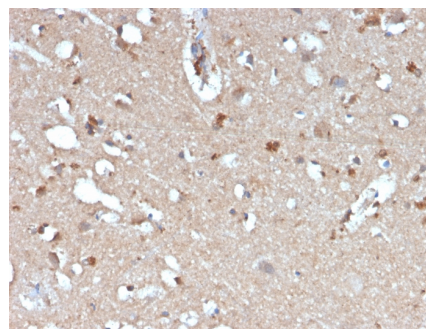
Clone	APP/3345
Gene Name	APP
Immunogen	Recombinant fragment (around aa578-680) of human Amyloid Beta protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2c / Kappa
Mol. Weight of Antigen	4-46kDa (A β 42-Amyloid); 100-125kDa (Amyloid A4)
Cellular Localization	Cell membrane, Cell projection, Cell surface, Clathrin-coated pit, Cytoplasm, Cytoplasmic vesicle, Early endosome, Endoplasmic reticulum, Golgi apparatus, Growth cone, Membrane, Nucleus, Perikaryon, Secreted
Species Reactivity	Human
Positive Control	Alzheimer's disease brain. Amyloidosis.

*Optimal dilution for a specific application should be determined.

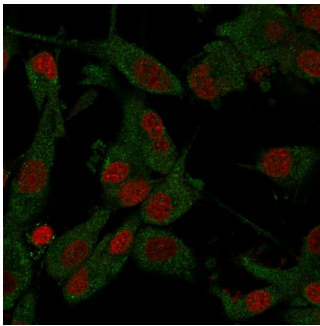
Product Images for beta Amyloid Antibody



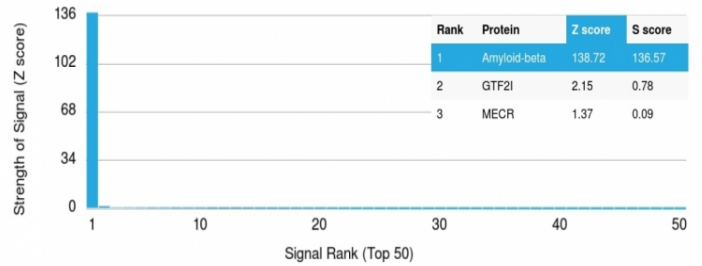
Formalin-fixed, paraffin-embedded human brain stained with Beta Amyloid Mouse Monoclonal Antibody (APP/3345).



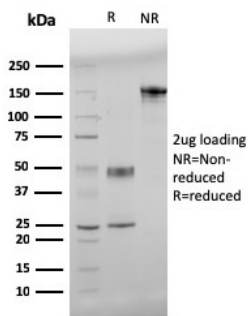
Formalin-fixed, paraffin-embedded human brain stained with Beta Amyloid Mouse Monoclonal Antibody (APP/3345).



Immunofluorescence Analysis of PFA-fixed U87 cells using Beta Amyloid Mouse Monoclonal Antibody (APP/3345) followed by goat anti-mouse IgG-CF488. Nucleicounterstained with RedDot.



Analysis of Protein Array containing more than 19,000 full-length human proteins using Beta Amyloid Mouse Monoclonal Antibody (APP/3345). 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 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 Beta Amyloid Mouse Monoclonal Antibody (APP/3345). Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

Proteolytic cleavage of the Amyloid protein precursor (APP) gives rise to the β -Amyloid and Amyloid A4 proteins, which are present in human platelets. Amyloid deposition is associated with type II diabetes, Down syndrome and a variety of neurological disorders, including Alzheimer's disease. The Amyloid precursor protein (APP) undergoes alternative splicing, resulting in several isoforms. Proteolytic cleavage of APP leads to the formation of the 4 kDa Amyloid β /A4 Amyloid protein. This protein is involved in the formation of neurofibrillary tangles and plaques that characterize the senile plaques of Alzheimer's patients. APLP1 (Amyloid precursor-like protein 1) and APLP2 are structurally similar to APP. Human APLP2 is a membrane-bound sperm protein that contains a region highly homologous to the transmembrane-cytoplasmic domains of APP found in brain plaques of Alzheimer's disease patients.

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 rabbit anti-serum by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA 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

Cardiovascular, Cytokine Signaling, Defective Intrinsic Apoptosis, Immunology, Infectious Disease, Neuroscience, Ovarian Cancer, Signal Transduction