PIK3CD Antibody

Mouse Monoclonal Antibody [Clone PIK3CD/4639]

Catalog No	Format	Size
5293-MSM9-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5293-MSM9-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5293-MSM9-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

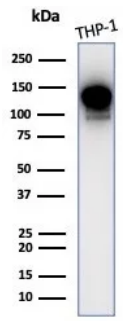
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

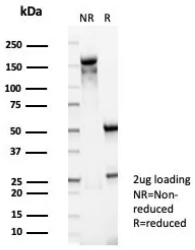
Clone	PIK3CD/4639
Gene Name	PIK3CD
Immunogen	Recombinant fragment of human PIK3CD protein (around aa 520-720) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	119/33kDa
Cellular Localization	Cytoplasm.
Species Reactivity	Human
Positive Control	lymph node or tonsil|THP1 cells. Human spleen

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

Product Images for PIK3CD Antibody



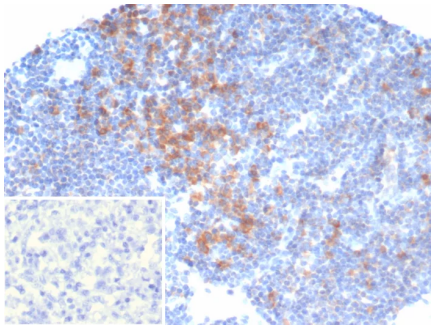
Western blot analysis of THP-1 cell lysate using PIK3CD Mouse Monoclonal Antibody (PIK3CD/4639)



SDS-PAGE Analysis of Purified PIK3CD Mouse Monoclonal Antibody (PIK3CD/4639). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing PIK3R2-Monospecific Mouse Monoclonal Antibody (PIK3CD/4639). 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.



Formalin-fixed, paraffin-embedded human lymph node stained with PIK3CD Mouse Monoclonal Antibody (PIK3CD/4639). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

Phosphatidylinositol 3-kinase (PI 3-kinase) is composed of p85 and p110 subunits. p85 lacks PI 3-kinase activity and acts as an adapter, coupling p110 to activated protein tyrosine kinase. Two forms of p85 have been described (p85a and p85b), each possessing one SH3 and two SH2 domains. Various p110 forms have been identified. p110a and p110b interact with p85a, and p110a has also been shown to interact with p85b in vitro. It has been shown to bind p85a and b, but it apparently does not phosphorylate these subunits. p110d has the capacity to autophosphorylate and results in the nearly complete inactivation of the lipid kinase activity. Interestingly, p110g does not interact with the p85 subunits and has been shown to be activated by a and bg heterotrimeric G proteins. Two p110d isoforms have been identified and are widely expressed. Isoform 1 is expressed predominantly in leukocytes while isoform 2 is expressed in normal thymus, lung and spleen tissues.

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

BBB VCAM-1 Signaling, Breast Cancer, Cardiovascular, CTLA-4 blockade immunotherapy, Cytokine Signaling, Developmental Biology, Immunology, Infectious Disease, Lung Cancer, Signal Transduction

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.