PIK3R2 / Phosphoinositide-3-kinase regulatory subunit 2 Antibody

Mouse Monoclonal Antibody [Clone PIK3R2/292]

Catalog No	Format	Size
5296-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5296-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5296-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

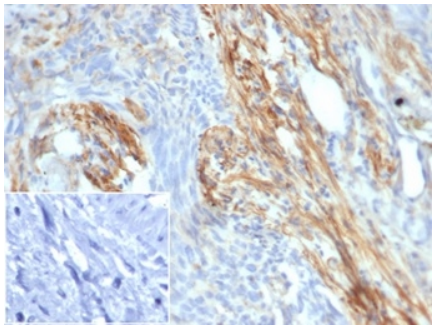
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

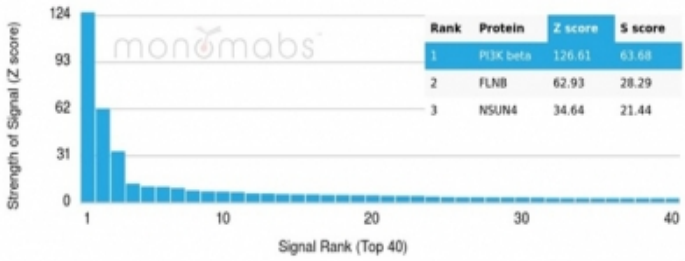
Clone	PIK3R2/292
Gene Name	PIK3R2
Immunogen	Recombinant fragment of human PIK3R2 protein (around aa 520-720) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	85kDa
Species Reactivity	Human
Positive Control	Human spleen or bladder.

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

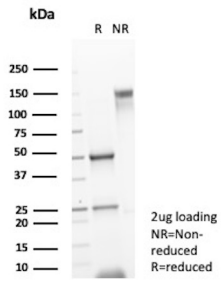
Product Images for PIK3R2 / Phosphoinositide-3-kinase regulatory subunit 2 Antibody



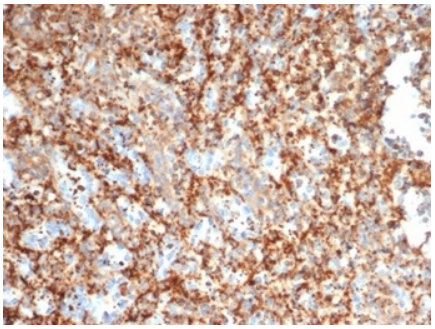
Formalin-fixed, paraffin-embedded human bladder carcinoma stained with PIK3R2 Mouse Monoclonal Antibody (PIK3R2/292). Inset: PBS instead of primary antibody; secondary only negative control.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing PIK3R2-Monospecific Mouse Monoclonal Antibody (PIK3R2/292). 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 Phosphatidylinositol 3-kinase regulatorysubunit beta Mouse Monoclonal Antibody (PIK3R2/292). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human spleen stained with PIK3R2 Mouse Monoclonal Antibody (PIK3R2/292). HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.

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 (p85? and p85?), each possessing one SH3 and two SH2 domains. Various p110 isoforms have been identified. p110? and p110? interact with p85?, and p110? has also been shown to interact with p85? in vitro. p110 ?L expression is restricted to white blood cells. It has been shown to bind p85? and p85?, but it apparently does not phosphorylate these subunits. p110 ?L seems to have the capacity to autophosphorylate. p110? does not interact with the p85 subunits. It has been shown to be activated by ? and ?? heterotrimeric G proteins.

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

AKT Signaling, BBB VCAM-1 Signaling, Bladder Cancer, Breast Cancer, Colon Cancer, 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.